

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

- |                               |  |
|-------------------------------|--|
| - Trade name                  | AUGEO® CLEAN MULTI   |
| - Chemical name               | Racemic mixture (+/-)-2,2-dimethyl-4-hydroxymethyl-1,3-dioxolane |
| - CAS-No.                     | 100-79-8   |
| - REACH : Registration number | 01-2120066005-66-0000  |

**1.2 Relevant identified uses of the substance or mixture and uses advised against****Uses of the Substance/Mixture**

- Cleaning agent
- Waxes
- Stain removers and waxes removers
- Glass cleaner
- diluent and vehicle for fragrances

**Remarks**

- For professional and industrial installation and use only.

**1.3 Details of the supplier of the safety data sheet****Company**

Baked Games SRL  
Romania, Bucuresti, Sector 4, Soseaua Giurgului nr 321  
contact@kitlumanari.ro

**E-mail address**

contact@kitlumanari.ro

**1.4 Emergency telephone number**

112

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification (Regulation (EC) No 1272/2008 )**

Eye irritation, Category 2

H319: Causes serious eye irritation.

**2.2 Label elements****Regulation (EC) No 1272/2008****Pictogram****Signal word**

- Warning

**Hazard statements**

- H319 Causes serious eye irritation.

**Precautionary statements**Prevention

- P264 Wash skin thoroughly after handling.
- P280 Wear eye protection/ face protection.

Response

- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337 + P313 If eye irritation persists: Get medical advice/ attention.

**2.3 Other hazards which do not result in classification**Ecological information

- The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information

- The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**SECTION 3: Composition/information on ingredients****3.1 Substance**

- Chemical name Racemic mixture (+/-)-2,2-dimethyl-4-hydroxymethyl-1,3-dioxolane
- Synonyms (+/-)-2,2-dimethyl-1,3-dioxolane-4-methanol, Isopropylidene glycerol
- Formula C<sub>6</sub>H<sub>12</sub>O<sub>3</sub>

**Information on Components and Impurities**

Chemical name	Identification number	Classification Regulation (EC) No 1272/2008	SCL, M-factor, ATE	Concentration [%]
2,2-dimethyl-1,3-dioxolan-4-ylmethanol	CAS-No. : 100-79-8 EINECS-No. : 202-888-7	Eye irritation, Category 2 ; H319	ATE (Oral): 7.000 mg/kg ATE (Dermal): > 2.000 mg/kg ATE (Inhalation): > 5,11 mg/l (aerosol)	>= 99 - <= 100
Registration number: 01-2120066005-66-xxxx				

For the full text of the H-Statements mentioned in this Section, see Section 16.

**3.2 Mixture**

- Not applicable, this product is a substance.

**SECTION 4: First aid measures****4.1 Description of first aid measures**General advice

- First aider needs to protect himself.
- Show this safety data sheet to the doctor in attendance.
- Place affected clothing in a sealed bag for subsequent decontamination.
- When symptoms persist or in all cases of doubt seek medical advice.

**In case of inhalation**

- Quickly move the person away from the contaminated area. Make the affected person rest.
- Obtain medical attention.

**In case of skin contact**

- Wash off immediately with plenty of water for at least 15 minutes.
- Use appropriate protective equipment when treating a contaminated person.
- In case of inflammation (redness, irritation, ...) obtain medical attention.

**In case of eye contact**

- Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
- Keep eye wide open while rinsing.
- Always obtain medical advice, even if there are no symptoms.

**In case of ingestion**

- Do NOT induce vomiting.
- Obtain medical attention.
- Do not give anything to drink.

**4.2 Most important symptoms and effects, both acute and delayed****Effects**

- Chronic exposure may cause dermatitis.
- May cause irreversible eye damage.
- Loss of the eye

**Symptoms**

- Redness
- Swelling of tissue
- Causes skin burns.
- Lachrymation
- Conjunctivitis
- Causes eye burns.

**4.3 Indication of any immediate medical attention and special treatment needed****Notes to physician**

- Burns must be treated by a physician.
- Contact a poison control center.

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing media**

- Extinguishing media - small fires
- Water spray
- Multi-purpose powders
- Carbon dioxide (CO<sub>2</sub>)
- Alcohol Resistant Aqueous Film Forming Foam (AR-AFFF)
  
- Extinguishing media - large fires
- Water spray
- Multi-purpose powders
- Alcohol Resistant Aqueous Film Forming Foam (AR-AFFF)
  
- Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Unsuitable extinguishing media**

- Do not use a solid water stream as it may scatter and spread fire.

- High volume water jet

## 5.2 Special hazards arising from the substance or mixture

### Specific hazards during firefighting

- Combustible liquid.
- The pressure in sealed containers can increase under the influence of heat.
- Hazardous decomposition products formed under fire conditions.
- High concentrations of toxic or harmful products may remain in the residual liquid once the fire has been extinguished.
- Under fire conditions:
  - Will burn
  - On combustion, toxic gases are released.

### Hazardous combustion products:

- Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

## 5.3 Advice for firefighters

### Special protective equipment for firefighters

- Wear full protective clothing and self-contained breathing apparatus.
- Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing.
- In the event of fire, wear self-contained breathing apparatus.
- For further information refer to section 8 "Exposure controls/personal protection".

### Specific fire fighting methods

- Stay upwind.
- Fight fire with normal precautions from a reasonable distance.
- Do not use a solid water stream as it may scatter and spread fire.
- Cool down the containers/equipment exposed to heat with a water spray. Ensure that there is NO direct contact between the water and the product.
- Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Cool containers/tanks with water spray.
- Do not use a solid water stream as it may scatter and spread fire.

### Further information

- Evacuate personnel to safe areas.
- Intervention only by capable personnel who are trained and aware of the hazards of the product.
- Never approach containers which have been exposed to fire, without cooling them sufficiently.
- Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
- Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

- Avoid inhalation, ingestion and contact with skin and eyes.
- Wear chemical resistant personal protective equipment.
- Wear suitable gloves.
- Wear suitable protective clothing.

- Wear as appropriate:
  - Face-shield
  - Tightly fitting safety goggles.
- In the case of dust or aerosol formation use respirator with an approved filter.
- In the case of vapour formation use a respirator with an approved filter.
- Eliminate all ignition sources if safe to do so.
- Stop leak if safe to do so.
- For further information refer to section 8 "Exposure controls/personal protection".

## 6.2 Environmental precautions

- Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.
- Prevent further leakage or spillage if safe to do so.
- Contain the spilled material by bunding.
- The product should not be allowed to enter drains, water courses or the soil.

## 6.3 Methods and materials for containment and cleaning up

- No sparking tools should be used.
- Stop leak if safe to do so.
- Dam up with sand or inert earth (do not use combustible materials).
- Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).
- Shovel or sweep up.
- Keep in suitable, closed containers for disposal.
- Never return spills in original containers for re-use.
- Dispose of in accordance with local regulations.

## 6.4 Reference to other sections

- 7. HANDLING AND STORAGE
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 13. DISPOSAL CONSIDERATIONS

# SECTION 7: Handling and storage

## 7.1 Precautions for safe handling

- Handle in accordance with good industrial hygiene and safety practice.
- Wear personal protective equipment.
- Wear suitable protective clothing.
- Avoid inhalation, ingestion and contact with skin and eyes.
- Avoid splashes.
- Avoid formation of aerosol.
- For personal protection, see section 8.
- Containers must be bonded and grounded when pouring or transferring material.
- This material contains a flammable or combustible liquid and vapor.

**Hygiene measures**

- Handle in accordance with good industrial hygiene and safety practice.
  - Use clean, well-maintained personal protection equipment.
  - Regular cleaning of equipment, work area and clothing.
  - When using do not eat, drink or smoke.
  - Smoking, eating and drinking should be prohibited in the application area.
  - Wash hands before breaks and immediately after handling the product.
  - Contaminated work clothing should not be allowed out of the workplace.
- The user is responsible for monitoring the working environment in accordance with local laws and regulations.

**7.2 Conditions for safe storage, including any incompatibilities****Technical measures/Storage conditions**

- Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.
- Keep locked up or in an area accessible only to qualified or authorised persons.
- Keep containers tightly closed in a dry, cool and well-ventilated place.
- Keep away from open flames, hot surfaces and sources of ignition.
- Keep away from incompatible materials to be indicated by the manufacturer.
- Observe the general rules of industrial fire protection.
- Areas containing this material should have fire safe practices and electrical equipment in accordance with applicable regulations and/or guidelines. Standards are primarily based on the material's flashpoint, but may also take into account properties such as miscibility with water or toxicity. All local and national regulations should be followed. In the Americas, National Fire Protection Association (NFPA) 30: Flammable and Combustible Liquids Code, is a widely used standard. NFPA 30 establishes storage conditions for the following classes of materials: Class I Flammable Liquids, Flashpoint <37.8 °C. Class II Combustible Liquids, 37.8 °C < Flashpoint <60 °C. Class IIIa Combustible Liquids, 60 °C < Flashpoint < 93 °C. Class IIIb Combustible Liquids, Flashpoint > 93 °C.
- Keep away from sources of ignition - No smoking.

**Packaging material****Suitable material**

- Unlined steel
- Plastic container of HDPE

**7.3 Specific end use(s)**

- no data available

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters**

- Contains no substances with occupational exposure limit values above their regulatory reporting threshold.

## AUGEO® CLEAN MULTI

Revision Date 21.01.2025

**Derived No Effect Level (DNEL) / Derived minimal effect level (DMEL)**

Product name	Population	Route of exposure	Potential health effects	Exposure time	Value	Remarks
2,2-dimethyl-1,3-dioxolan-4-ylmethanol	Workers	Inhalation	Long-term systemic effects		60 mg/m <sup>3</sup>	
	Workers	Dermal	Long-term systemic effects		10 mg/kg bw/day	
	General population	Oral	Long-term systemic effects		5 mg/kg bw/day	
	General population	Inhalation	Long-term systemic effects		15 mg/m <sup>3</sup>	
	General population	Dermal	Long-term systemic effects		5 mg/kg bw/day	

**Predicted No Effect Concentration ( PNEC )**

Product name	Compartment	Value	Remarks
2,2-dimethyl-1,3-dioxolan-4-ylmethanol	Fresh water	0,2 mg/l	
	Intermittent use/release	46 mg/l	
	Marine water	0,02 mg/l	
	Sewage treatment plant	10 mg/l	
	Fresh water sediment	1,183 mg/kg dry weight (d.w.)	
	Marine sediment	0,1183 mg/kg dry weight (d.w.)	
	Soil	2,5 mg/kg dry weight (d.w.)	
	Oral (secondary poisoning)		No PNEC derivation as there is no potential for bioaccumulation.

**8.2 Exposure controls****Control measures****Engineering measures**

- Effective exhaust ventilation system.
- Ensure adequate ventilation.
- Extract at emission point.
- Ensure that extracted air cannot be returned to the workplace through the ventilation system.
- Avoid splashes.
- Avoid formation of aerosol.

**Individual protection measures****Respiratory protection**

- This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation.
- Use a respirator with an approved filter if a risk assessment indicates this is necessary.
- Keep in a well-ventilated place.

**Hand protection**

- Where there is a risk of contact with hands, use appropriate gloves.
- Gloves must be inspected prior to use.

- Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
- Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
- The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.
- Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
- Impervious gloves

**Eye protection**

- Tightly fitting safety goggles.
- Face-shield
  
- Chemical resistant goggles must be worn.
- Tightly fitting safety goggles.

**Skin and body protection**

- Full protective suit
- Footwear protecting against chemicals.
  
- Choose body protection according to the amount and concentration of the dangerous substance at the work place.
  
- Impervious clothing
- Change working clothes after each workshift.
- Contaminated work clothing should not be allowed out of the workplace.

**Hygiene measures**

- Handle in accordance with good industrial hygiene and safety practice.
- Use clean, well-maintained personal protection equipment.
- Regular cleaning of equipment, work area and clothing.
- When using do not eat, drink or smoke.
- Smoking, eating and drinking should be prohibited in the application area.
- Wash hands before breaks and immediately after handling the product.
- Contaminated work clothing should not be allowed out of the workplace.
  
- The user is responsible for monitoring the working environment in accordance with local laws and regulations.

**Protective measures**

- Emergency equipment immediately accessible, with instructions for use.
- Ensure that eyewash stations and safety showers are close to the workstation location.
- Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the potential hazards and/or risks that may occur during use.
  
- The protective equipment must be selected in accordance with current CEN standards and in cooperation with the supplier of the protective equipment.

**Environmental exposure controls**

- Dam up.
- Prevent product from entering sewage system.
- Try to prevent the material from entering drains or water courses.
- Local authorities should be advised if significant spillages cannot be contained.
  
- Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.
  
- Prevent further leakage or spillage if safe to do so.
- Contain the spilled material by bunding.
- The product should not be allowed to enter drains, water courses or the soil.
  
- Dispose of rinse water in accordance with local and national regulations.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

<b><u>Physical state</u></b>	liquid
<b><u>Colour</u></b>	colourless
<b><u>Odour</u></b>	slight
<b><u>Odour Threshold</u></b>	No data available
<b><u>Melting point/freezing point</u></b>	<u>Freezing point</u> : -99 °C
<b><u>Initial boiling point and boiling range</u></b>	<u>Boiling point/boiling range</u> : 183 - 191 °C ( 1.013,25 hPa)
<b><u>Flammability (solid, gas)</u></b>	No data available
<b><u>Flammability (liquids)</u></b>	No data available
<b><u>Flammability/Explosive limit</u></b>	No data available
<b><u>Flash point</u></b>	91 °C closed cup 100 °C open cup
<b><u>Auto-ignition temperature</u></b>	No data available
<b><u>Decomposition temperature</u></b>	No data available
<b><u>pH</u></b>	Not applicable
<b><u>Viscosity</u></b>	<u>Viscosity, dynamic</u> : 11 mPa.s ( 20 °C)
<b><u>Solubility</u></b>	<u>Water solubility</u> : ( 20 °C)completely soluble  <u>Solubility in other solvents</u> : Alcohol: miscible  Esters: miscible  Ether: miscible  Aromatic hydrocarbons: miscible  petroleum ether.: miscible

	petrol: miscible
<b><u>Partition coefficient: n-octanol/water</u></b>	log Pow: 0,007
<b><u>Vapour pressure</u></b>	0,05 hPa ( 20 °C)
<b><u>Density</u></b>	1,0670 g/cm <sup>3</sup> ( 20 °C)
<b><u>Relative density</u></b>	1,069 ( 20 °C)
<b><u>Relative vapor density</u></b>	2,6
<b><u>Particle characteristics</u></b>	No data available
<b><u>Evaporation rate (Butylacetate = 1)</u></b>	0,027
<b>9.2 Other information</b>	
<b><u>Self-ignition</u></b>	390 °C ( 1.013 hPa) Method: EU Test Guideline A15
<b><u>Surface tension</u></b>	33,5 mN/m ( 20 °C)
<b><u>Molecular weight</u></b>	132,16 g/mol

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

- Stable at normal ambient temperature and pressure.

### 10.2 Chemical stability

- Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

- No dangerous reaction known under conditions of normal use.

### 10.4 Conditions to avoid

- Keep away from open flames, hot surfaces and sources of ignition.
- Avoid high temperatures.
- Avoid excessive heat for prolonged periods of time.

### 10.5 Incompatible materials

- Strong oxidizing agents
- Strong acids
- On contact with acid releases:
- Acetone

### 10.6 Hazardous decomposition products

- On combustion or on thermal decomposition (pyrolysis) releases:
- Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

**Acute oral toxicity**

2,2-dimethyl-1,3-dioxolan-4-ylmethanol LD50 : 7.000 mg/kg - Rat  
Not classified as hazardous for acute oral toxicity according to GHS.  
Published data

**Acute inhalation toxicity**

2,2-dimethyl-1,3-dioxolan-4-ylmethanol LC50 - 4 h ( aerosol ) : > 5,11 mg/l - Rat , male and female  
Method: OECD Test Guideline 403  
Not classified as hazardous for acute inhalation toxicity according to GHS.  
No mortality observed at this concentration.  
Unpublished reports

**Acute dermal toxicity**

2,2-dimethyl-1,3-dioxolan-4-ylmethanol LD50 : > 2.000 mg/kg - Rat , male and female  
Method: OECD Test Guideline 402  
Not classified as hazardous for acute dermal toxicity according to GHS.  
Semioclusive  
No mortality observed at this dose.  
Unpublished reports

**Acute toxicity (other routes of administration)**

No data available

**Skin corrosion/irritation**

2,2-dimethyl-1,3-dioxolan-4-ylmethanol Rabbit  
No skin irritation  
Method: OECD Test Guideline 404  
Semioclusive  
Unpublished reports

**Serious eye damage/eye irritation**

2,2-dimethyl-1,3-dioxolan-4-ylmethanol Rabbit  
Causes serious eye irritation.  
Method: OECD Test Guideline 405  
Unpublished reports

**Respiratory or skin sensitisation**

2,2-dimethyl-1,3-dioxolan-4-ylmethanol Maximisation Test - Guinea pig  
Responding animals in GPMT < 30%  
Method: OECD Test Guideline 406  
Unpublished reports

**Mutagenicity****Genotoxicity in vitro**

2,2-dimethyl-1,3-dioxolan-4-ylmethanol Ames test  
with and without metabolic activation  
  
negative  
Method: OECD Test Guideline 471  
Unpublished reports  
  
Gene mutation assays in mammalian cells.  
Strain: mouse lymphoma cells  
with and without metabolic activation  
  
negative  
Method: OECD Test Guideline 490  
Unpublished reports

**Genotoxicity in vivo**

2,2-dimethyl-1,3-dioxolan-4-ylmethanol In vivo micronucleus test - Mouse  
male  
Intraperitoneal route  
Method: OECD Test Guideline 474

negative  
Unpublished reports

### **Carcinogenicity**

No data available

### **Toxicity for reproduction and development**

#### **Toxicity to reproduction/Fertility**

2,2-dimethyl-1,3-dioxolan-4-ylmethanol Reproduction/developmental toxicity screening test - Rat, male and female, Oral

General Toxicity - Parent NOAEL: 1.000 mg/kg bw/day  
Fertility NOEL: 1.000 mg/kg bw/day

General Toxicity F1 NOEL: 1.000 mg/kg bw/day

OECD Test Guideline 422

Gavage, Highest dose tested, no impairment of fertility has been observed,  
Unpublished reports

One-Generation Reproduction Toxicity Study - Rat, male and female, Oral

General Toxicity - Parent NOAEL: 1.000 mg/kg bw/day  
Fertility NOAEL Parent: 1.000 mg/kg bw/day

General Toxicity F1 NOAEL: 1.000 mg/kg bw/day  
Fertility NOAEL F1: 1.000 mg/kg bw/day  
Developmental Toxicity NOAEL F1: 1.000 mg/kg bw/day

General Toxicity F2 NOAEL: 1.000 mg/kg bw/day  
Developmental Toxicity NOAEL F2: 1.000 mg/kg bw/day

OECD Test Guideline 443

Gavage, Highest dose tested, no impairment of fertility has been observed,  
Unpublished internal reports

#### **Developmental Toxicity/Teratogenicity**

2,2-dimethyl-1,3-dioxolan-4-ylmethanol Pre-natal - Rat, male and female, Oral

General Toxicity Maternal NOAEL: 1.000 mg/kg bw/day

Developmental Toxicity NOAEL F1: 1.000 mg/kg bw/day

Method: OECD Test Guideline 414

Gavage, Highest dose tested, no teratogenic effects have been observed,  
Unpublished reports

Pre-natal - Rabbit, female, Oral

General Toxicity Maternal NOAEL: 300 mg/kg bw/day

Developmental Toxicity NOAEL F1: 1.000 mg/kg bw/day

Method: OECD Test Guideline 414

Gavage, Highest dose tested, no teratogenic effects have been observed,  
Unpublished internal reports

### **STOT**

**STOT - single exposure**

2,2-dimethyl-1,3-dioxolan-4-ylmethanol The substance or mixture is not classified as specific target organ toxicant, single exposure.  
Internal evaluation.

**STOT - repeated exposure**

2,2-dimethyl-1,3-dioxolan-4-ylmethanol The substance or mixture is not classified as specific target organ toxicant, repeated exposure.  
Internal evaluation.

2,2-dimethyl-1,3-dioxolan-4-ylmethanol Oral 5 Weeks - Rat , male and female  
NOAEL: 1000 mg/kg  
Method: OECD Test Guideline 422  
Gavage  
Highest dose tested  
No systemic toxicity observed.  
Unpublished reports

Inhalation (aerosol) 90-day - Rat , male and female  
NOAEC: > 5 mg/l  
Method: OECD Test Guideline 413  
Highest dose tested  
No significant adverse effects were reported  
Unpublished reports

**Aspiration toxicity**

No data available

**11.2 Information on other hazards****Endocrine disrupting properties**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**Experience with human exposure**

No data available

**SECTION 12: Ecological information****12.1 Toxicity****Aquatic Compartment****Acute toxicity to fish**

2,2-dimethyl-1,3-dioxolan-4-ylmethanol LC50 - 96 h : 16.700 mg/l - Pimephales promelas (fathead minnow)  
flow-through test  
Analytical monitoring: yes

Method: according to a standardised method  
Not harmful to fish (LC/LL50 > 100 mg/L)  
Published data

**Acute toxicity to daphnia and other aquatic invertebrates**

2,2-dimethyl-1,3-dioxolan-4-ylmethanol EC50 - 48 h : > 96 mg/l - Daphnia magna (Water flea)  
static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 202  
Not harmful to aquatic invertebrates. (EC/EL50 > 100 mg/L)  
Highest concentration tested  
Unpublished reports

EC50 - 48 h : 4.600 mg/l - Daphnia magna (Water flea)  
static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 202  
Not harmful to aquatic invertebrates. (EC/EL50 > 100 mg/L)  
Unpublished reports

**Toxicity to aquatic plants**

2,2-dimethyl-1,3-dioxolan-4-ylmethanol ErC50 - 72 h : > 92 mg/l - Pseudokirchneriella subcapitata (green algae)  
static test  
Analytical monitoring: yes  
End point: Growth rate  
Method: OECD Test Guideline 201  
Not harmful to algae (EC/EL50 > 100 mg/L)  
Highest concentration tested  
Unpublished reports

NOEC - 72 h : 92 mg/l - Pseudokirchneriella subcapitata (green algae)  
static test  
Analytical monitoring: yes  
End point: Growth rate  
Method: OECD Test Guideline 201  
No adverse chronic effect observed up to and including the threshold of 1 mg/L.  
Highest concentration tested  
Unpublished reports

ErC50 - 72 h : 15.000 mg/l - Raphidocelis subcapitata (freshwater green alga)  
static test  
End point: Growth rate  
Method: OECD Test Guideline 201  
Not harmful to algae (EC/EL50 > 100 mg/L)  
Unpublished reports

NOEC - 72 h : 940 mg/l - Raphidocelis subcapitata (freshwater green alga)  
static test  
End point: Growth rate  
Method: OECD Test Guideline 201  
No adverse chronic effect observed up to and including the threshold of 1 mg/L.  
Unpublished reports

**Toxicity to microorganisms**

2,2-dimethyl-1,3-dioxolan-4-ylmethanol - 3 h : - activated sludge  
static test  
End point: Respiration inhibition

EC50 : > 1.000 mg/l

EC10 : > 1.000 mg/l

Analytical monitoring: no  
Method: OECD Test Guideline 209  
Unpublished reports

**Chronic toxicity to fish**

No data available

**Chronic toxicity to daphnia and other aquatic invertebrates**

2,2-dimethyl-1,3-dioxolan-4-ylmethanol NOEC: 10 mg/l - 21 Days - Daphnia magna (Water flea)  
semi-static test  
Analytical monitoring: yes  
End point: Reproduction  
Method: OECD Test Guideline 211  
No adverse chronic effect observed up to and including the threshold of 1 mg/L.  
Unpublished reports

**Terrestrial Compartment****Toxicity to soil dwelling organisms**

2,2-dimethyl-1,3-dioxolan-4-ylmethanol NOEC: 250 mg/kg - 56 Days - Eisenia fetida (earthworms)  
 End point: Reproduction  
 Method: OECD Test Guideline 222  
 Unpublished reports

EC10: 1.250 mg/kg - 28 Days - soil micro-organisms  
 End point: Nitrogen transformation  
 Method: OECD Test Guideline 216  
 Unpublished reports

**12.2 Persistence and degradability****Abiotic degradation****Stability in water**

2,2-dimethyl-1,3-dioxolan-4-ylmethanol DT50:  
 Hydrolysis  
 pH: 4,0

Temperature of hydrolysis: 15 °C  
 Hydrolysis time: 6,59 Days

Temperature of hydrolysis: 20 °C  
 Hydrolysis time: 3,51 Days

Temperature of hydrolysis: 25 °C  
 Hydrolysis time: 0,959 Days

Method: OECD Test Guideline 111  
 Unpublished reports

**Physical- and photo-chemical elimination**

No data available

**Biodegradation****Biodegradability**

2,2-dimethyl-1,3-dioxolan-4-ylmethanol Ready biodegradability study:  
 Method: OECD Test Guideline 301 F  
 86,2 % - 28 Days  
 The 10 day time window criterion is fulfilled.  
 The substance fulfills the criteria for ultimate aerobic biodegradability and ready biodegradability  
 Theoretical oxygen demand  
 Inoculum: activated sludge  
 Unpublished internal reports

**Degradability assessment**

2,2-dimethyl-1,3-dioxolan-4-ylmethanol The product is considered to be rapidly degradable in the environment

**12.3 Bioaccumulative potential****Partition coefficient: n-octanol/water**

2,2-dimethyl-1,3-dioxolan-4-ylmethanol Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.

**Bioconcentration factor (BCF)**

No data available

**12.4 Mobility in soil**

**Adsorption potential (Koc)**

2,2-dimethyl-1,3-dioxolan-4-ylmethanol Adsorption/Soil  
 Log Koc: < 1,25  
 Method: OECD Test Guideline 121  
 Highly mobile in soils  
 Unpublished reports

**Known distribution to environmental compartments**

No data available

**12.5 Results of PBT and vPvB assessment**

2,2-dimethyl-1,3-dioxolan-4-ylmethanol Substance is not persistent, bioaccumulative, and toxic (PBT).  
 Substance is not very persistent and very bioaccumulative (vPvB).

**12.6 Endocrine disrupting properties**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**12.7 Other adverse effects****Ecotoxicity assessment****Short-term (acute) aquatic hazard**

2,2-dimethyl-1,3-dioxolan-4-ylmethanol Not harmful to aquatic life (LC/LL50, EC/EL50 > 100 mg/L)

**Long-term (chronic) aquatic hazard**

2,2-dimethyl-1,3-dioxolan-4-ylmethanol No adverse chronic effect observed up to and including the threshold of 1 mg/L.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Product Disposal*****Prohibition***

- Do not discharge directly into the environment.
- Dispose of in accordance with local regulations.
- The Company encourages the recycle, recovery and reuse of materials, where permitted. If disposal is necessary, The Company recommends that organic materials, especially when classified as hazardous waste, be disposed of by thermal treatment or incineration at approved facilities. All local and national regulations should be followed.

**Advice on cleaning and disposal of packaging*****Prohibition***

- Do NOT dispose of untreated packaging with industrial waste.
- Do not dispose of with domestic refuse.
- Empty remaining contents.
- Clean using steam.
- Monitor the residual vapours.
- Dispose of rinse water in accordance with local and national regulations.
- Containers that cannot be cleaned must be treated as waste.
- Dispose of contents/ container to an approved waste disposal plant.
- Dispose of in accordance with local regulations.
- Where possible recycling is preferred to disposal or incineration.
- The recycled material must be completely dry and free of pollutants.

**SECTION 14: Transport information****ADN/ADNR**

not regulated

**ADR**

not regulated

**RID**

not regulated

**IMDG**

not regulated

**IATA**

not regulated

Note: The above regulatory prescriptions are those valid on the date of publication of this sheet. Given the possible evolution of transport regulations for hazardous materials, it would be advisable to check their validity with your sales office.

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)**

Requirements of Annex XVII to Regulation (EC) 1907/2006 apply to this product. The precise list of restricted uses is available in the corresponding entry of this annex.  
Number on list: 3

Shall not be used in: - ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays, - tricks and jokes, - games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

**REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)**

acetone  
Requirements of Annex XVII to Regulation (EC) 1907/2006 apply to this product. The precise list of restricted uses is available in the corresponding entry of this annex.  
Number on list: 75

\*Extract of entry 75: Shall not be placed on the market in mixtures for use for tattooing purposes, and mixtures containing any such substances shall not be used for tattooing purposes, after 4 January 2022.

**Notification status**

<b>Inventory Information</b>	<b>Status</b>
United States TSCA Inventory	- All substances listed as active on the TSCA inventory
Canadian Domestic Substances List (DSL)	- Listed on Inventory
Australian Inventory of Industrial Chemicals (AIIC)	- Listed on Inventory
Japan. CSCL - Inventory of Existing and New Chemical Substances	- Listed on Inventory
Korea. Korean Existing Chemicals Inventory (KECI)	- Listed on Inventory
China. Inventory of Existing Chemical Substances in China (IECSC)	- Listed on Inventory
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	- Listed on Inventory

Taiwan Chemical Substance Inventory (TCSI)	- Listed on Inventory
New Zealand. Inventory of Chemical Substances	- All components are listed on the NZIoC inventory. Additional HSNO obligations may apply. Please refer to Section 15 of SDS for New Zealand.
EU. European Registration, Evaluation, Authorization and Restriction of Chemical (REACH)	- When purchased from a Solvay legal entity based in the EEA ("European Economic Area"), this product is compliant with the registration provisions of the REACH Regulation (EC) No. 1907/2006 as all its components are either excluded, exempt, and/or registered. When purchased from a legal entity outside of the EEA, please contact your local representative for additional information.
Korea. Act on Registration and Evaluation of Chemicals	- When purchased from a Solvay legal entity based in Korea, this product is compliant with "Act on Registration and Evaluation of Chemicals" (AREC or K-REACH, Article 10) as all its components are either excluded, exempt, and/or (pre)registered. When purchased from a legal entity outside of Korea, please contact your local representative for additional information.

### 15.2 Chemical safety assessment

- A Chemical Safety Assessment has been carried out for this substance.
- Exposure Scenario prepared in accordance with the latest ESCOM format.
- See Exposure scenario

## SECTION 16: Other information

### Full text of H-Statements referred to under sections 2 and 3.

- H319: Causes serious eye irritation.

### Key or legend to abbreviations and acronyms used in the safety data sheet

- ADR: European Agreement on International Carriage of Dangerous Goods by Road.
- ADN: European Agreement on the International Carriage of Dangerous Goods by Inland Waterways.
- RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
- IATA: International Air Transport Association.
- ICAO-TI: Technical Instructions for Safe Transport of Dangerous Goods by Air.
- IMDG: International Maritime Dangerous Goods.
- TWA: Time weighted average
- ATE: Estimated value of acute toxicity
- EC: European Community number
- CAS: Chemical Abstracts Service.
- LD50: Substance that causes 50% (half) death in the test animals group (Median Fatal Dose).
- LC50: Substance concentration causing 50% (half) death in the test animals group.
- EC50: Effective Concentration of the substance causing the maximum of 50%.
- PBT: Persistent, Bioaccumulative and Toxic substance.
- vPvB: Very Persistent and Very Bioaccumulative.
- GHS/CLP/SEA: Classification, labeling, packaging regulation
- DNEL: Derived No Effect Level

- PNEC: Predicted No Effect Concentration
- STOT: Specific Target Organ Toxicity

**Not all acronyms listed above are referenced in this SDS.**

**Further information**

- Distribute new edition to clients
- Update
- Exposure scenario

NB: In this document the numerical separator of the thousands is the "." (point), the decimal separator is "," (comma).  
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. Such information is only given as a guidance to help the user handle, use, process, store, transport, dispose and release the product in satisfactory safety conditions and is not to be considered as a warranty or quality specification. It should be used in conjunction with technical sheets but do not replace them. Thus, the information only relates to the designated specific product and may not be applicable if such product is used in combination with other materials or in any other manufacturing process, unless otherwise specifically indicated. It does not release the user from ensuring he is in conformity with all regulations linked to its activity.

**Annex: Exposure Scenarios****Table of Contents**

Number	Title
ES1	Consumer use
ES2	Consumer use
ES3	Formulation or re-packing
ES4	Widespread use by professional workers
ES5	Widespread use by professional workers
ES6	Consumer use
ES7	Consumer use
ES8	Formulation or re-packing
ES9	Formulation or re-packing
ES10	Consumer use
ES11	Formulation or re-packing
ES12	Formulation or re-packing
ES13	Formulation or re-packing
ES14	Widespread use by professional workers
ES15	Consumer use
ES16	Formulation or re-packing
ES17	Formulation or re-packing
ES18	Widespread use by professional workers
ES19	Widespread use by professional workers
ES20	Consumer use
ES21	Consumer use
ES22	Consumer use
ES23	Consumer use

**ES 1: Consumer use****1.1. Title section**

<b>Exposure Scenario name</b>	: Consumer use, Use into insect repellent products
<b>Structured Short Title</b>	: Consumer use

Environment		
<b>CS 1</b>	<b>End use of insect repellent products</b>	ERC8a
Consumer		
<b>CS 2</b>	<b>Use of biocidal products (insect repellent), Electric room diffuser, Indoor</b>	PC8,,
<b>CS 3</b>	<b>Use of biocidal products (insect repellent), Electric diffuser, Outdoor</b>	PC8,,, OC9

**1.2. Conditions of use affecting exposure**

**1.2.1. Control of environmental exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a)**

**1.2.2. Control of consumer exposure: Biocidal products (e.g. Disinfectants, pest control) (PC8) / Use of biocidal products (insect repellent) () / Electric room diffuser ()**

Product (article) characteristics	
Covers concentrations up to 100 %	
Physical form of product	: No spray
Amount used (or contained in articles), frequency and duration of use/exposure	
Amount per Application	: <= 50 g/event
Exposure frequency	: 1 events/day
Duration	: Exposure duration 8 h
Use frequency	: Frequent
Conditions and measures related to personal protection, hygiene and health evaluation	
General measures (eye irritants) Avoid direct eye contact with product, also via contamination on hands. Avoid splashing.	
Other conditions affecting consumers exposure	
Indoor or outdoor use	: Indoor use

**1.2.3. Control of consumer exposure: Biocidal products (e.g. Disinfectants, pest control) (PC8) / Use of biocidal products (insect repellent) () / Electric diffuser () / Outdoor (OC9)**

Conditions and measures related to personal protection, hygiene and health evaluation	
General measures (eye irritants)	
Avoid direct eye contact with product, also via contamination on hands.	
Avoid splashing.	
Other conditions affecting consumers exposure	
Indoor or outdoor use	: Outdoor use

### 1.3. Exposure estimation and reference to its source

#### 1.3.1. Environmental release and exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a)

Additional information on exposure estimation
As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

#### 1.3.2. Consumer exposure: Biocidal products (e.g. Disinfectants, pest control) (PC8) / Use of biocidal products (insect repellent) () / Electric room diffuser ()

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
Eye	local		(Risk management measures are based on qualitative risk characterisation.)	

#### 1.3.3. Consumer exposure: Biocidal products (e.g. Disinfectants, pest control) (PC8) / Use of biocidal products (insect repellent) () / Electric diffuser () / Outdoor (OC9)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,057 mg/m <sup>3</sup> (AISE REACT)	< 0,01
dermal	systemic	long-term	0 mg/kg bw/day (AISE REACT)	< 0,01
combined routes	systemic	long-term		< 0,01

### 1.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

#### Environment

If a DU has OC/RMMs outside specifications in the ES, then the DU can evaluate whether he works inside the boundaries set by the ES through scaling in EUSES.

The main driving parameters are :

- local amount used (tonnage)
- release factor prior to on-site treatment
- on-site wastewater treatment presence and efficiency

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- dilution factor

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Human Health

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least

**ES 2: Consumer use****2.1. Title section**

<b>Exposure Scenario name</b>	: Consumer use, Use in paint
<b>Structured Short Title</b>	: Consumer use

Environment		
<b>CS 1</b>	<b>Consumer use</b>	ERC8a, Consumer use
Consumer		
<b>CS 2</b>	<b>All application phases regarding water borne paint</b>	PC9a,
<b>CS 3</b>	<b>All application phases regarding coatings</b>	PC9a,

**2.2. Conditions of use affecting exposure**

**2.2.1. Control of environmental exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a) / Consumer use**

**2.2.2. Control of consumer exposure: Coatings and paints, thinners, paint removers (PC9a) / All application phases regarding water borne paint ()**

Product (article) characteristics	
Covers percentage substance in the product up to 1 %.	
Amount used (or contained in articles), frequency and duration of use/exposure	
Amount per Application	: <= 3750 g/event
Exposure frequency	: 1 events/day
Use frequency	: Infrequent
Duration	: Application duration <= 120 min
Duration	: Dermal exposure duration per event <= 120 min
Duration	: Inhalation exposure duration per event <= 132 min
Other conditions affecting consumers exposure	
Room size	: >= 20 m3
Ventilation rate	: >= 0,6

**2.2.3. Control of consumer exposure: Coatings and paints, thinners, paint removers (PC9a) / All application phases regarding coatings ()**

Product (article) characteristics	
Covers concentrations up to 4 %	

Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Amount per Application	: <= 1650 g/event
Exposure frequency	: 1 events/day
Use frequency	: Infrequent
Duration	: Application duration <= 60 min
Duration	: Inhalation exposure duration per event <= 60 min
<b>Other conditions affecting consumers exposure</b>	
Room size	: >= 34 m <sup>3</sup>
Ventilation rate	: >= 1,5

### 2.3. Exposure estimation and reference to its source

#### 2.3.1. Environmental release and exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a) / Consumer use

<b>Additional information on exposure estimation</b>
As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

#### 2.3.2. Consumer exposure: Coatings and paints, thinners, paint removers (PC9a) / All application phases regarding water borne paint ()

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0,0033 mg/kg bw/day (ConsExpo web 1.1.0)	< 0,01
inhalative	systemic	long-term	0,0053 mg/m <sup>3</sup> (ConsExpo web 1.1.0)	< 0,01
combined routes	systemic	long-term		< 0,01

#### 2.3.3. Consumer exposure: Coatings and paints, thinners, paint removers (PC9a) / All application phases regarding coatings ()

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0,000154 mg/kg bw/day (ConsExpo web 1.1.0)	< 0,01
inhalative	systemic	long-term	0,009 mg/m <sup>3</sup> (ConsExpo web 1.1.0)	< 0,01

combined routes	systemic	long-term		< 0,01
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#### 2.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

##### Environment

If a DU has OC/RMMs outside specifications in the ES, then the DU can evaluate whether he works inside the boundaries set by the ES through scaling in EUSES.

The main driving parameters are :

- local amount used (tonnage)
- release factor prior to on-site treatment
- on-site wastewater treatment presence and efficiency
- dilution factor

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

##### Human Health

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least

**ES 3: Formulation or re-packing****3.1. Title section**

<b>Exposure Scenario name</b>	: Formulation or re-packing, Industrial formulation of homecare products
<b>Structured Short Title</b>	: Formulation or re-packing

Environment		
<b>CS 1</b>	<b>Industrial formulation of homecare products</b>	ERC2, Industrial formulation of homecare products
Worker		
<b>CS 2</b>	<b>General process exposures, no sampling</b>	PROC1,, CS57
<b>CS 3</b>	<b>General process exposures, With sample collection</b>	PROC2,, CS56
<b>CS 4</b>	<b>General process exposures</b>	PROC3,
<b>CS 5</b>	<b>General exposures open batch process including aerosols</b>	PROC4,
<b>CS 6</b>	<b>Batch processes at elevated temperatures (e.g. solvents resin manufacture, grease manufacture)</b>	PROC3,
<b>CS 7</b>	<b>Sample collection</b>	PROC3,
<b>CS 8</b>	<b>Laboratory activities</b>	PROC15, CS36
<b>CS 9</b>	<b>Bulk transfers, Drum/batch transfers</b>	PROC8b, CS14, CS8
<b>CS 10</b>	<b>Mixing operations (open systems)</b>	PROC5, CS30
<b>CS 11</b>	<b>Transfer from/pouring from containers, Manual</b>	PROC8a, CS22, CS34
<b>CS 12</b>	<b>Tabletting, compression, extrusion or pelletisation</b>	PROC14
<b>CS 13</b>	<b>Drum and small package filling</b>	PROC9, CS6
<b>CS 14</b>	<b>Clean down and Maintenance</b>	PROC8a,
<b>CS 15</b>	<b>Storage</b>	PROC1,
<b>CS 16</b>	<b>Storage</b>	PROC2,

**3.2. Conditions of use affecting exposure**

**3.2.1. Control of environmental exposure: Formulation into mixture (ERC2) / Industrial formulation of homecare products**

**3.2.2. Control of worker exposure: Use in closed process, no likelihood of exposure (PROC1) / General process exposures () / no sampling (CS57)**

<b>Product (article) characteristics</b>
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Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity <= 1 h/day
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands.	
Avoid splashing.	
Provide a basic standard of general ventilation (1 to 3 air changes per hour).	
without local exhaust ventilation	
Use in closed process, no likelihood of exposure	
Occupational Health and Safety Management System: Advanced.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants)	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

**3.2.3. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / General process exposures () / with sample collection (CS56)**

<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity <= 1 h/day
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands.	
Avoid splashing.	
Provide a basic standard of general ventilation (1 to 3 air changes per hour).	
without local exhaust ventilation	
Closed continuous process with occasional controlled exposure	
Occupational Health and Safety Management System: Advanced.	

<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants)	
Wear suitable gloves tested to EN374. Dermal - minimum efficiency of $\geq 80\%$	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

**3.2.4. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / General process exposures ()**

<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity $\leq 1$ h/day
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands.	
Avoid splashing.	
Provide a basic standard of general ventilation (1 to 3 air changes per hour).	
without local exhaust ventilation	
Closed batch process with occasional controlled exposure	
Occupational Health and Safety Management System: Advanced.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants)	
Wear suitable gloves tested to EN374. Dermal - minimum efficiency of $\geq 80\%$	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

### 3.2.5. Control of worker exposure: Chemical production where opportunity for exposure arises (PROC4) / General exposures open batch process including aerosols ( )

<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity <= 1 h/day
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands.	
Avoid splashing.	
Provide a basic standard of general ventilation (1 to 3 air changes per hour).	
Local exhaust ventilation Inhalation - minimum efficiency of >= 90 %	
Occupational Health and Safety Management System: Advanced.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants)	
Use suitable eye protection.	
Wear suitable gloves tested to EN374. Dermal - minimum efficiency of >= 80 %	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

### 3.2.6. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Batch processes at elevated temperatures (e.g. solvents resin manufacture, grease manufacture) ( )

<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity <= 1 h/day
<b>Technical and organisational conditions and measures</b>	

Avoid direct eye contact with product, also via contamination on hands.	
Avoid splashing.	
Provide a basic standard of general ventilation (1 to 3 air changes per hour).	
Local exhaust ventilation Inhalation - minimum efficiency of $\geq 90\%$	
Closed batch process with occasional controlled exposure	
Occupational Health and Safety Management System: Advanced.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants)	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

**3.2.7. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Sample collection ()**

<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity $\leq 15$ min/day
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands.	
Avoid splashing.	
Provide a basic standard of general ventilation (1 to 3 air changes per hour).	
without local exhaust ventilation	
Closed batch process with occasional controlled exposure	
Occupational Health and Safety Management System: Advanced.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants)	
Wear suitable gloves tested to EN374. Dermal - minimum efficiency of $\geq 80\%$	
For further specification, refer to section 8 of the SDS.	

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**Other conditions affecting workers exposure**

Indoor or outdoor use	:	Indoor use
Temperature	:	Assumes process temperature up to 40 °C

**3.2.8. Control of worker exposure: Use as laboratory reagent (PROC15) / Laboratory activities (CS36)****Product (article) characteristics**

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid

**Amount used (or contained in articles), frequency and duration of use/exposure**

Use frequency : Duration of the activity &lt;= 1 h/day

**Technical and organisational conditions and measures**

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Local exhaust ventilation

Inhalation - minimum efficiency of &gt;= 90 %

Occupational Health and Safety Management System: Advanced.

**Conditions and measures related to personal protection, hygiene and health evaluation**

General measures (eye irritants)

Wear suitable gloves tested to EN374.

Dermal - minimum efficiency of &gt;= 80 %

For further specification, refer to section 8 of the SDS.

**Other conditions affecting workers exposure**

Indoor or outdoor use	:	Indoor use
Temperature	:	Assumes process temperature up to 40 °C

**3.2.9. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Bulk transfers (CS14) / Drum/batch transfers (CS8)****Product (article) characteristics**

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid

**Amount used (or contained in articles), frequency and duration of use/exposure**

Use frequency : Duration of the activity &lt;= 1 h/day

<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands.	
Avoid splashing.	
Provide a basic standard of general ventilation (1 to 3 air changes per hour).	
Local exhaust ventilation Inhalation - minimum efficiency of $\geq 95\%$	
Occupational Health and Safety Management System: Advanced.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants)	
Use suitable eye protection.	
Wear suitable gloves tested to EN374. Dermal - minimum efficiency of $\geq 80\%$	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

### 3.2.10. Control of worker exposure: Mixing or blending in batch processes (PROC5) / Mixing operations (open systems) (CS30)

<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid Aerosol
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands.	
Avoid splashing.	
Provide a basic standard of general ventilation (1 to 3 air changes per hour).	
Local exhaust ventilation Inhalation - minimum efficiency of $\geq 90\%$	
Occupational Health and Safety Management System: Advanced.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants)	

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Use suitable eye protection.	
Wear suitable gloves tested to EN374. Dermal - minimum efficiency of $\geq 80\%$	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

### 3.2.11. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Transfer from/pouring from containers (CS22) / Manual (CS34)

<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity $\leq 1$ h/day
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands.	
Avoid splashing.	
Provide a basic standard of general ventilation (1 to 3 air changes per hour).	
Local exhaust ventilation Inhalation - minimum efficiency of $\geq 90\%$	
Occupational Health and Safety Management System: Advanced.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants)	
Use suitable eye protection.	
Wear suitable gloves tested to EN374. Dermal - minimum efficiency of $\geq 80\%$	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

### 3.2.12. Control of worker exposure: Tableting, compression, extrusion, pelettisation, granulation (PROC14)

<b>Product (article) characteristics</b>
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Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands.	
Avoid splashing.	
Provide a basic standard of general ventilation (1 to 3 air changes per hour).	
Local exhaust ventilation Inhalation - minimum efficiency of $\geq 90\%$	
Occupational Health and Safety Management System: Advanced.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants)	
Wear suitable gloves tested to EN374. Dermal - minimum efficiency of $\geq 80\%$	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

### 3.2.13. Control of worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9) / Drum and small package filling (CS6)

<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands.	
Avoid splashing.	
Provide a basic standard of general ventilation (1 to 3 air changes per hour).	
Local exhaust ventilation Inhalation - minimum efficiency of $\geq 90\%$	
Occupational Health and Safety Management System: Advanced.	

Conditions and measures related to personal protection, hygiene and health evaluation	
General measures (eye irritants)	
Wear suitable gloves tested to EN374. Dermal - minimum efficiency of $\geq 80\%$	
For further specification, refer to section 8 of the SDS.	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

### 3.2.14. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Clean down and Maintenance ()

Product (article) characteristics	
Covers concentrations up to 3 %	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Use frequency	: Duration of the activity $\leq 4$ h/day
Technical and organisational conditions and measures	
Avoid direct eye contact with product, also via contamination on hands.	
Avoid splashing.	
Provide a basic standard of general ventilation (1 to 3 air changes per hour).	
without local exhaust ventilation	
Occupational Health and Safety Management System: Advanced.	
Conditions and measures related to personal protection, hygiene and health evaluation	
General measures (eye irritants)	
Use suitable eye protection.	
Wear suitable gloves tested to EN374. Dermal - minimum efficiency of $\geq 80\%$	
For further specification, refer to section 8 of the SDS.	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

### 3.2.15. Control of worker exposure: Use in closed process, no likelihood of exposure (PROC1) / Storage ()

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<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity <= 15 min/day
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands.	
Avoid splashing.	
Use in closed process, no likelihood of exposure	
Occupational Health and Safety Management System: Advanced.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants)	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Outdoor use
Temperature	: Assumes process temperature up to 40 °C

### 3.2.16. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Storage ()

<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity <= 15 min/day
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands.	
Avoid splashing.	
Closed continuous process with occasional controlled exposure	
Occupational Health and Safety Management System: Advanced.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants)	

For further specification, refer to section 8 of the SDS.

#### Other conditions affecting workers exposure

Indoor or outdoor use : Outdoor use

Temperature : Assumes process temperature up to 40 °C

### 3.3. Exposure estimation and reference to its source

#### 3.3.1. Environmental release and exposure: Formulation into mixture (ERC2) / Industrial formulation of homecare products

##### Additional information on exposure estimation

As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

#### 3.3.2. Worker exposure: Use in closed process, no likelihood of exposure (PROC1) / General process exposures () / no sampling (CS57)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,011 mg/m <sup>3</sup> (ECETOC TRA worker v3)	< 0,01
dermal	systemic	long-term	0,034 mg/kg bw/day (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		< 0,01

#### 3.3.3. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / General process exposures () / with sample collection (CS56)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	1,101 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,018
dermal	systemic	long-term	0,274 mg/kg bw/day (ECETOC TRA worker v3)	0,027
combined routes	systemic	long-term		0,046

#### 3.3.4. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / General process exposures ()

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	3,304 mg/m <sup>3</sup>	0,055

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			(ECETOC TRA worker v3)	
dermal	systemic	long-term	0,138 mg/kg bw/day (ECETOC TRA worker v3)	0,014
combined routes	systemic	long-term		0,069

**3.3.5. Worker exposure: Chemical production where opportunity for exposure arises (PROC4) / General exposures open batch process including aerosols ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,551 mg/m <sup>3</sup> (ECETOC TRA worker v3)	< 0,01
dermal	systemic	long-term	1,372 mg/kg bw/day (ECETOC TRA worker v3)	0,137
combined routes	systemic	long-term		0,146

**3.3.6. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Batch processes at elevated temperatures (e.g. solvents resin manufacture, grease manufacture) ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,33 mg/m <sup>3</sup> (ECETOC TRA worker v3)	< 0,01
dermal	systemic	long-term	0,69 mg/kg bw/day (ECETOC TRA worker v3)	0,069
combined routes	systemic	long-term		0,075

**3.3.7. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Sample collection ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	1,652 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,028
dermal	systemic	long-term	0,138 mg/kg bw/day (ECETOC TRA worker v3)	0,014
combined routes	systemic	long-term		0,041

**3.3.8. Worker exposure: Use as laboratory reagent (PROC15) / Laboratory activities (CS36)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,551 mg/m <sup>3</sup> (ECETOC TRA worker v3)	< 0,01
dermal	systemic	long-term	0,068 mg/kg bw/day (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		0,016

### 3.3.9. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Bulk transfers (CS14) / Drum/batch transfers (CS8)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,275 mg/m <sup>3</sup> (ECETOC TRA worker v3)	< 0,01
dermal	systemic	long-term	2,742 mg/kg bw/day (ECETOC TRA worker v3)	0,274
combined routes	systemic	long-term		0,279

### 3.3.10. Worker exposure: Mixing or blending in batch processes (PROC5) / Mixing operations (open systems) (CS30)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	2,753 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,046
dermal	systemic	long-term	2,742 mg/kg bw/day (ECETOC TRA worker v3)	0,274
combined routes	systemic	long-term		0,32

### 3.3.11. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Transfer from/pouring from containers (CS22) / Manual (CS34)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	1,101 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,018
dermal	systemic	long-term	2,742 mg/kg bw/day (ECETOC TRA worker v3)	0,274
combined routes	systemic	long-term		0,293

**3.3.12. Worker exposure: Tableting, compression, extrusion, pelettisation, granulation (PROC14)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	2,753 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,046
dermal	systemic	long-term	0,686 mg/kg bw/day (ECETOC TRA worker v3)	0,069
combined routes	systemic	long-term		0,114

**3.3.13. Worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9) / Drum and small package filling (CS6)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	2,753 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,046
dermal	systemic	long-term	1,372 mg/kg bw/day (ECETOC TRA worker v3)	0,137
combined routes	systemic	long-term		0,183

**3.3.14. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Clean down and Maintenance ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	6,608 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,11
dermal	systemic	long-term	0,548 mg/kg bw/day (ECETOC TRA worker v3)	0,055
combined routes	systemic	long-term		0,165

**3.3.15. Worker exposure: Use in closed process, no likelihood of exposure (PROC1) / Storage ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,00385 mg/m <sup>3</sup> (ECETOC TRA worker v3)	< 0,01
dermal	systemic	long-term	0,034 mg/kg bw/day (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		< 0,01

**3.3.16. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Storage ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,385 mg/m <sup>3</sup> (ECETOC TRA worker v3)	< 0,01
dermal	systemic	long-term	1,37 mg/kg bw/day (ECETOC TRA worker v3)	0,137
combined routes	systemic	long-term		0,143

**3.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES****Environment**

If a DU has OC/RMMs outside specifications in the ES, then the DU can evaluate whether he works inside the boundaries set by the ES through scaling in EUSES.

The main driving parameters are :

- local amount used (tonnage)
- release factor prior to on-site treatment
- on-site wastewater treatment presence and efficiency
- dilution factor

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

**Human Health**

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least

**ES 4: Widespread use by professional workers****4.1. Title section**

<b>Exposure Scenario name</b>	: Widespread use by professional workers, Professional uses as polishes and wax blends
<b>Structured Short Title</b>	: Widespread use by professional workers

Environment		
<b>CS 1</b>	<b>Polishes and wax blends</b>	ERC8a, PC31
Worker		
<b>CS 2</b>	<b>Floor care products; polish/impregnating agent</b>	PROC10,
<b>CS 3</b>	<b>Floor care products; polish/impregnating agent</b>	PROC11,
<b>CS 4</b>	<b>Maintenance products; furniture and leather care products</b>	PROC10,
<b>CS 5</b>	<b>Maintenance products; furniture and leather care products</b>	PROC11,
<b>CS 6</b>	<b>Maintenance products; leather care product/ Preparatory phase</b>	PROC8a,
<b>CS 7</b>	<b>Maintenance products; leather care product/ Use phase</b>	PROC2,
<b>CS 8</b>	<b>Maintenance products; drain unblocker</b>	PROC8a,
<b>CS 9</b>	<b>Maintenance products; stainless steel care</b>	PROC10,
<b>CS 10</b>	<b>Maintenance products; stainless steel care; spray and wipe</b>	PROC11,

**4.2. Conditions of use affecting exposure**

**4.2.1. Control of environmental exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a) / Polishes and wax blends (PC31)**

**4.2.2. Control of worker exposure: Roller application or brushing (PROC10) / Floor care products; polish/impregnating agent ()**

Product (article) characteristics	
Covers percentage substance in the product up to 1 %.	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Covers daily exposures up to 8 hours
Technical and organisational conditions and measures	
Avoid direct eye contact with product, also via contamination on hands.	
Avoid splashing.	
Provide a basic standard of general ventilation (1 to 3 air changes per hour).	
without local exhaust ventilation	
Occupational Health and Safety Management System: Basic.	

Conditions and measures related to personal protection, hygiene and health evaluation	
General measures (eye irritants)	
Use suitable eye protection.	
For further specification, refer to section 8 of the SDS.	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

#### 4.2.3. Control of worker exposure: Non-industrial spraying (PROC11) / Floor care products; polish/impregnating agent ()

Product (article) characteristics	
Covers concentrations up to 3 %	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Use frequency	: Duration of the activity <= 15 min/day
Technical and organisational conditions and measures	
Avoid direct eye contact with product, also via contamination on hands.	
Avoid splashing.	
Provide a basic standard of general ventilation (1 to 3 air changes per hour).	
without local exhaust ventilation	
Occupational Health and Safety Management System: Basic.	
Conditions and measures related to personal protection, hygiene and health evaluation	
General measures (eye irritants)	
For further specification, refer to section 8 of the SDS.	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

#### 4.2.4. Control of worker exposure: Roller application or brushing (PROC10) / Maintenance products; furniture and leather care products ()

Product (article) characteristics	
Covers percentage substance in the product up to 1 %.	

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Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity <= 4 hours/day
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands.	
Avoid splashing.	
Provide a basic standard of general ventilation (1 to 3 air changes per hour).	
without local exhaust ventilation	
Occupational Health and Safety Management System: Basic.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants)	
Use suitable eye protection.	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

#### 4.2.5. Control of worker exposure: Non-industrial spraying (PROC11) / Maintenance products; furniture and leather care products ()

<b>Product (article) characteristics</b>	
Covers concentrations up to 4 %	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity <= 15 min/day
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands.	
Avoid splashing.	
Provide a basic standard of general ventilation (1 to 3 air changes per hour).	
without local exhaust ventilation	
Occupational Health and Safety Management System: Basic.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants)	

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For further specification, refer to section 8 of the SDS.

**Other conditions affecting workers exposure**

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

**4.2.6. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Maintenance products; leather care product/ Preparatory phase ()****Product (article) characteristics**

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

**Amount used (or contained in articles), frequency and duration of use/exposure**

Use frequency : Duration of the activity <= 15 min/day

**Technical and organisational conditions and measures**

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

without local exhaust ventilation

Occupational Health and Safety Management System: Basic.

**Conditions and measures related to personal protection, hygiene and health evaluation**

General measures (eye irritants)

Use suitable eye protection.

For further specification, refer to section 8 of the SDS.

**Other conditions affecting workers exposure**

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

**4.2.7. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Maintenance products; leather care product/ Use phase ()****Product (article) characteristics**

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

**Amount used (or contained in articles), frequency and duration of use/exposure**

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Use frequency	: Duration of the activity <= 15 min/day
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands.	
Avoid splashing.	
Provide a basic standard of general ventilation (1 to 3 air changes per hour).	
without local exhaust ventilation	
Closed continuous process with occasional controlled exposure	
Occupational Health and Safety Management System: Basic.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants)	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

#### 4.2.8. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Maintenance products; drain unblocker ()

<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 1 %.	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity <= 15 min/day
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands.	
Avoid splashing.	
Provide a basic standard of general ventilation (1 to 3 air changes per hour).	
without local exhaust ventilation	
Occupational Health and Safety Management System: Basic.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants)	
Use suitable eye protection.	
Wear suitable gloves tested to EN374.	
Dermal - minimum efficiency of >= 80 %	

Wear suitable respiratory protection. Inhalation - minimum efficiency of $\geq 90\%$	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

#### 4.2.9. Control of worker exposure: Roller application or brushing (PROC10) / Maintenance products; stainless steel care ( )

<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 1 %.	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity $\leq 4$ hours/day
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands.	
Avoid splashing.	
Provide a basic standard of general ventilation (1 to 3 air changes per hour).	
without local exhaust ventilation	
Occupational Health and Safety Management System: Basic.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants)	
Use suitable eye protection.	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

#### 4.2.10. Control of worker exposure: Non-industrial spraying (PROC11) / Maintenance products; stainless steel care; spray and wipe ( )

<b>Product (article) characteristics</b>	
Covers concentrations up to 4 %	
Physical form of product	: Liquid

Amount used (or contained in articles), frequency and duration of use/exposure	
Use frequency	: Duration of the activity <= 15 min/day
Technical and organisational conditions and measures	
Avoid direct eye contact with product, also via contamination on hands.	
Avoid splashing.	
Provide a basic standard of general ventilation (1 to 3 air changes per hour).	
without local exhaust ventilation	
Occupational Health and Safety Management System: Basic.	
Conditions and measures related to personal protection, hygiene and health evaluation	
General measures (eye irritants)	
For further specification, refer to section 8 of the SDS.	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

#### 4.3. Exposure estimation and reference to its source

##### 4.3.1. Environmental release and exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a) / Polishes and wax blends (PC31)

Additional information on exposure estimation
As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

##### 4.3.2. Worker exposure: Roller application or brushing (PROC10) / Floor care products; polish/impregnating agent ()

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	13,76 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,229
dermal	systemic	long-term	2,743 mg/kg bw/day (ECETOC TRA worker v3)	0,274
combined routes	systemic	long-term		0,504

##### 4.3.3. Worker exposure: Non-industrial spraying (PROC11) / Floor care products; polish/impregnating agent ()

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR

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inhalative	systemic	long-term	11,01 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,184
dermal	systemic	long-term	0,22 mg/kg bw/day (RISKOFDERM v2.1)	0,022
combined routes	systemic	long-term		0,206

#### 4.3.4. Worker exposure: Roller application or brushing (PROC10) / Maintenance products; furniture and leather care products ()

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	8,26 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,138
dermal	systemic	long-term	2,743 mg/kg bw/day (ECETOC TRA worker v3)	0,274
combined routes	systemic	long-term		0,412

#### 4.3.5. Worker exposure: Non-industrial spraying (PROC11) / Maintenance products; furniture and leather care products ()

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	11,01 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,184
dermal	systemic	long-term	0,631 mg/kg bw/day (RISKOFDERM v2.1)	0,063
combined routes	systemic	long-term		0,247

#### 4.3.6. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Maintenance products; leather care product/ Preparatory phase ()

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	1,377 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,023
dermal	systemic	long-term	1,371 mg/kg bw/day (ECETOC TRA worker v3)	0,137
combined routes	systemic	long-term		0,16

**4.3.7. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Maintenance products; leather care product/ Use phase ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,275 mg/m <sup>3</sup> (ECETOC TRA worker v3)	< 0,01
dermal	systemic	long-term	0,137 mg/kg bw/day (ECETOC TRA worker v3)	0,014
combined routes	systemic	long-term		0,018

**4.3.8. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Maintenance products; drain unblocker ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,138 mg/m <sup>3</sup> (ECETOC TRA worker v3)	< 0,01
dermal	systemic	long-term	0,274 mg/kg bw/day (ECETOC TRA worker v3)	0,027
combined routes	systemic	long-term		0,03

**4.3.9. Worker exposure: Roller application or brushing (PROC10) / Maintenance products; stainless steel care ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	8,26 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,138
dermal	systemic	long-term	2,743 mg/kg bw/day (ECETOC TRA worker v3)	0,274
combined routes	systemic	long-term		0,412

**4.3.10. Worker exposure: Non-industrial spraying (PROC11) / Maintenance products; stainless steel care; spray and wipe ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	11,01 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,184
dermal	systemic	long-term	0,631 mg/kg bw/day	0,063

			(RISKOFDERM v2.1)	
combined routes	systemic	long-term		0,247

#### 4.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

##### Environment

If a DU has OC/RMMs outside specifications in the ES, then the DU can evaluate whether he works inside the boundaries set by the ES through scaling in EUSES.

The main driving parameters are :

- local amount used (tonnage)
- release factor prior to on-site treatment
- on-site wastewater treatment presence and efficiency
- dilution factor

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

##### Human Health

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least

**ES 5: Widespread use by professional workers****5.1. Title section**

<b>Exposure Scenario name</b>	: Widespread use by professional workers, Professional end-use of washing and cleaning products (IFRA GES 4)
<b>Structured Short Title</b>	: Widespread use by professional workers

Environment		
<b>CS 1</b>	<b>End-use of washing and cleaning products</b>	ERC8d, ERC8a, End-use of washing and cleaning products
Worker		
<b>CS 2</b>	<b>Kitchen cleaners (Use phase)</b>	PROC10,

**5.2. Conditions of use affecting exposure**

**5.2.1. Control of environmental exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8d) / Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a) / End-use of washing and cleaning products**

**5.2.2. Control of worker exposure: Roller application or brushing (PROC10) / Kitchen cleaners (Use phase) ()**

Product (article) characteristics	
Covers concentrations up to 3 %	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Scale of application for spreading of liquid to surface	: > 3 m <sup>2</sup> /h
Use frequency	: Duration of the activity <= 4 hours/day
Technical and organisational conditions and measures	
Avoid direct eye contact with product, also via contamination on hands.	
Avoid splashing.	
Provide a basic standard of general ventilation (1 to 3 air changes per hour). without local exhaust ventilation	
Occupational Health and Safety Management System: Basic.	
Conditions and measures related to personal protection, hygiene and health evaluation	
General measures (eye irritants)	
Use suitable eye protection.	

Wear suitable gloves tested to EN374. Dermal - minimum efficiency of $\geq 80\%$	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Room size	: Any size workroom
Temperature	: Assumes process temperature up to 25 °C

### 5.3. Exposure estimation and reference to its source

**5.3.1. Environmental release and exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8d) / Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a) / End-use of washing and cleaning products**

<b>Additional information on exposure estimation</b>
As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

### 5.3.2. Worker exposure: Roller application or brushing (PROC10) / Kitchen cleaners (Use phase) ()

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	3,5 mg/m <sup>3</sup> (ART v1.5)	0,058
dermal	systemic	long-term	1,097 mg/kg bw/day (ECETOC TRA worker v3)	0,11
combined routes	systemic	long-term		0,168

### 5.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

#### Environment

If a DU has OC/RMMs outside specifications in the ES, then the DU can evaluate whether he works inside the boundaries set by the ES through scaling in EUSES.

The main driving parameters are :

- local amount used (tonnage)
- release factor prior to on-site treatment
- on-site wastewater treatment presence and efficiency
- dilution factor

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

#### Human Health

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least

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## ES 6: Consumer use

## 6.1. Title section

<b>Exposure Scenario name</b>	: Consumer use, Consumers end-use of washing and cleaning products (IFRA GES 6)
<b>Structured Short Title</b>	: Consumer use

Environment		
<b>CS 1</b>	<b>End-use of washing and cleaning products</b>	ERC8d, ERC8a, End-use of washing and cleaning products
Consumer		
<b>CS 2</b>	<b>Laundry and dish washing products</b>	PC35, PC35_1, PC8_1
<b>CS 3</b>	<b>Surface cleaners (liquid)</b>	PC35,
<b>CS 4</b>	<b>Toilet cleaners (liquid)</b>	PC35,
<b>CS 5</b>	<b>Carpet cleaning (liquids)</b>	PC35,
<b>CS 6</b>	<b>Wipes</b>	PC35,
<b>CS 7</b>	<b>High pressure washers/cleaners</b>	PC35, AISE-SP-C0021
<b>CS 8</b>	<b>Automotive Care Products</b>	PC35, PC6
<b>CS 9</b>	<b>Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners)</b>	PC35, PC8_3, PC35_3
<b>CS 10</b>	<b>Surface care, trigger sprays</b>	PC35,
<b>CS 11</b>	<b>Kitchen cleaner, Liquids</b>	PC35,, PC16_1, PC17_1, PC24_1, 36
<b>CS 12</b>	<b>Kitchen cleaner, Sprays</b>	PC35,, PC24_3

## 6.2. Conditions of use affecting exposure

6.2.1. Control of environmental exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8d) / Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a) / End-use of washing and cleaning products

6.2.2. Control of consumer exposure: Washing and cleaning products (PC35) / Laundry and dish washing products (PC35\_1, PC8\_1)

Product (article) characteristics
Covers percentage substance in the product up to 1 %.

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Physical form of product	: No spray
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Amount per Application	: <= 50 g/event
Exposure frequency	: 1 events/day
Duration	: Duration of exposure by events 1 h
Use frequency	: Frequent
<b>Other conditions affecting consumers exposure</b>	
Indoor or outdoor use	: Indoor use

## 6.2.3. Control of consumer exposure: Washing and cleaning products (PC35) / Surface cleaners (liquid) ()

<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 1 %.	
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Amount used per event	: <= 60 g
Exposure frequency	: 1 events/day
Duration	: Duration of exposure by events 0,33 h
Use frequency	: Frequent
<b>Other conditions affecting consumers exposure</b>	
Indoor or outdoor use	: Indoor use

## 6.2.4. Control of consumer exposure: Washing and cleaning products (PC35) / Toilet cleaners (liquid) ()

<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 1 %.	
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Amount per Application	: <= 55 g/event
Exposure frequency	: 1 events/day
Duration	: Inhalation exposure duration per event <= 7 min
Duration	: Dermal exposure duration per event <= 2 min
Use frequency	: Frequent
<b>Other conditions affecting consumers exposure</b>	
Indoor or outdoor use	: Indoor use
Room size	: >= 2,5 m3

Ventilation rate	: >= 2
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**6.2.5. Control of consumer exposure: Washing and cleaning products (PC35) / Carpet cleaning (liquids) ()**

Product (article) characteristics	
Covers percentage substance in the product up to 1 %.	
Amount used (or contained in articles), frequency and duration of use/exposure	
Amount per Application	: <= 687,5 g/event
Exposure frequency	: 1 events/day
Product amount ingested	: <= 0,00184 g/event
Duration	: Application duration <= 30 min
Duration	: Inhalation exposure duration per event <= 240 min
Duration	: Dermal exposure duration per event <= 60 min
Use frequency	: Frequent
Other conditions affecting consumers exposure	
Indoor or outdoor use	: Indoor use
Room size	: >= 58 m <sup>3</sup>
Ventilation rate	: >= 0,5

**6.2.6. Control of consumer exposure: Washing and cleaning products (PC35) / Wipes ()**

Product (article) characteristics	
Covers percentage substance in the product up to 1 %.	
Amount used (or contained in articles), frequency and duration of use/exposure	
Exposure frequency	: 1 events/day
Use frequency	: Frequent

**6.2.7. Control of consumer exposure: Washing and cleaning products (PC35) / High pressure washers/cleaners (AISE-SP-C0021)**

Product (article) characteristics	
Covers percentage substance in the product up to 1 %.	
Physical form of product	: Liquid No spray
Amount used (or contained in articles), frequency and duration of use/exposure	
Amount per Application	: <= 50 g/event

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Exposure frequency	:	1 events/day
Duration	:	Duration of exposure by events <= 5 h
Use frequency	:	Infrequent
<b>Other conditions affecting consumers exposure</b>		
Indoor or outdoor use	:	Indoor use

### 6.2.8. Control of consumer exposure: Washing and cleaning products (PC35) / Automotive Care Products (PC6)

<b>Product (article) characteristics</b>		
Covers percentage substance in the product up to 1 %.		
Physical form of product	:	Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>		
Amount per Application	:	<= 5,769 g/event
Exposure frequency	:	1 events/day
Product amount in contact to skin	:	<= 0,286 g/event
Duration	:	Application duration <= 20 min
Duration	:	Inhalation exposure duration per event <= 60 min
Use frequency	:	Infrequent
<b>Other conditions affecting consumers exposure</b>		
Indoor or outdoor use	:	Indoor use
Room size	:	>= 15 m <sup>3</sup>
Ventilation rate	:	>= 2,5

### 6.2.9. Control of consumer exposure: Washing and cleaning products (PC35) / Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners) (PC8\_3, PC35\_3)

<b>Product (article) characteristics</b>		
Covers percentage substance in the product up to 1 %.		
Physical form of product	:	Sprays
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>		
Amount per Application	:	<= 35 g/event
Exposure frequency	:	1 events/day
Duration	:	Duration of exposure by events 4 h
Use frequency	:	Frequent

**Other conditions affecting consumers exposure**

Indoor or outdoor use : Indoor use

**6.2.10. Control of consumer exposure: Washing and cleaning products (PC35) / Surface care, trigger sprays ()****Product (article) characteristics**

Covers the percentage of the substance in the product up to 0,998 %

Physical form of product : Sprays

**Amount used (or contained in articles), frequency and duration of use/exposure**

Amount per Application : &lt;= 35 g/event

Exposure frequency : 1 events/day

Duration : Duration of exposure by events 4 h

Use frequency : Frequent

**Other conditions affecting consumers exposure**

Indoor or outdoor use : Indoor use

**6.2.11. Control of consumer exposure: Washing and cleaning products (PC35) / Kitchen cleaner () / Liquids (PC16\_1, PC17\_1, PC24\_1, 36)****Product (article) characteristics**

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

**Amount used (or contained in articles), frequency and duration of use/exposure**

Amount per Application : &lt;= 60 g/event

Exposure frequency : 1 events/day

Duration : Duration of exposure by events 0,33 h

Use frequency : Frequent

**Other conditions affecting consumers exposure**

Indoor or outdoor use : Indoor use

**6.2.12. Control of consumer exposure: Washing and cleaning products (PC35) / Kitchen cleaner () / Sprays (PC24\_3)****Product (article) characteristics**

Covers concentrations up to 0,5 %

Physical form of product	: Sprays
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Amount per Application	: <= 35 g/event
Exposure frequency	: 1 events/day
Duration	: Duration of exposure by events 4 h
Use frequency	: Frequent
<b>Other conditions affecting consumers exposure</b>	
Indoor or outdoor use	: Indoor use

### 6.3. Exposure estimation and reference to its source

6.3.1. Environmental release and exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8d) / Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a) / End-use of washing and cleaning products

<b>Additional information on exposure estimation</b>
As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

### 6.3.2. Consumer exposure: Washing and cleaning products (PC35) / Laundry and dish washing products (PC35\_1, PC8\_1)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,384 mg/m <sup>3</sup> (AISE REACT)	0,026
dermal	systemic	long-term	0,763 mg/kg bw/day (AISE REACT)	0,153
combined routes	systemic	long-term		0,178

### 6.3.3. Consumer exposure: Washing and cleaning products (PC35) / Surface cleaners (liquid) ()

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,028 mg/m <sup>3</sup> (AISE REACT)	< 0,01
dermal	systemic	long-term	1,43 mg/kg bw/day (AISE REACT)	0,286
combined routes	systemic	long-term		0,288

### 6.3.4. Consumer exposure: Washing and cleaning products (PC35) / Toilet cleaners (liquid) ()

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
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inhalative	systemic	long-term	0,00011 mg/m <sup>3</sup> (ConsExpo web 1.1.0)	< 0,01
dermal	systemic	long-term	0,027 mg/kg bw/day (ConsExpo web 1.1.0)	< 0,01
combined routes	systemic	long-term		< 0,01

**6.3.5. Consumer exposure: Washing and cleaning products (PC35) / Carpet cleaning (liquids) ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,0029 mg/m <sup>3</sup> (ConsExpo web 1.1.0)	< 0,01
dermal	systemic	long-term	0,295 mg/kg bw/day (ConsExpo web 1.1.0)	0,059
oral	systemic	long-term	0,033 mg/kg bw/day (ConsExpo web 1.1.0)	< 0,01
combined routes	systemic	long-term		0,066

**6.3.6. Consumer exposure: Washing and cleaning products (PC35) / Wipes ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	1,43 mg/kg bw/day (AISE REACT)	0,286

**6.3.7. Consumer exposure: Washing and cleaning products (PC35) / High pressure washers/cleaners (AISE-SP-C0021)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	6,25 mg/m <sup>3</sup> (ECETOC TRA consumer v3)	0,417
dermal	systemic	long-term	1,429 mg/kg bw/day (ECETOC TRA consumer v3)	0,286
combined routes	systemic	long-term		0,702

**6.3.8. Consumer exposure: Washing and cleaning products (PC35) / Automotive Care Products (PC6)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,000024 mg/m <sup>3</sup> (ConsExpo web)	< 0,01

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			1.1.0)	
dermal	systemic	long-term	0,00164 mg/kg bw/day (ConsExpo web 1.1.0)	< 0,01
combined routes	systemic	long-term		< 0,01

**6.3.9. Consumer exposure: Washing and cleaning products (PC35) / Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners) (PC8\_3, PC35\_3)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	5,147 mg/m <sup>3</sup> (ECETOC TRA consumer v3)	0,343
dermal	systemic	long-term	1,429 mg/kg bw/day (ECETOC TRA consumer v3)	0,286
combined routes	systemic	long-term		0,629

**6.3.10. Consumer exposure: Washing and cleaning products (PC35) / Surface care, trigger sprays ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	5,137 mg/m <sup>3</sup> (ECETOC TRA consumer v3)	0,342
dermal	systemic	long-term	1,426 mg/kg bw/day (ECETOC TRA consumer v3)	0,285
combined routes	systemic	long-term		0,628

**6.3.11. Consumer exposure: Washing and cleaning products (PC35) / Kitchen cleaner () / Liquids (PC16\_1, PC17\_1, PC24\_1, 36)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,028 mg/m <sup>3</sup> (AISE REACT)	< 0,01
dermal	systemic	long-term	1,43 mg/kg bw/day (AISE REACT)	0,286
combined routes	systemic	long-term		0,288

**6.3.12. Consumer exposure: Washing and cleaning products (PC35) / Kitchen cleaner () / Sprays (PC24\_3)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	2,574 mg/m <sup>3</sup> (ECETOC TRA)	0,172

			consumer v3)	
dermal	systemic	long-term	0,715 mg/kg bw/day (ECETOC TRA consumer v3)	0,143
combined routes	systemic	long-term		0,314

#### 6.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

##### Environment

If a DU has OC/RMMs outside specifications in the ES, then the DU can evaluate whether he works inside the boundaries set by the ES through scaling in EUSES.

The main driving parameters are :

- local amount used (tonnage)
- release factor prior to on-site treatment
- on-site wastewater treatment presence and efficiency
- dilution factor

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

##### Human Health

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least

**ES 7: Consumer use****7.1. Title section**

<b>Exposure Scenario name</b>	: Consumer use, Consumer end-use of air care products (IFRA GES 7)
<b>Structured Short Title</b>	: Consumer use

Environment		
<b>CS 1</b>	<b>End use of air care products</b>	ERC8a, End use of air care products
Consumer		
<b>CS 2</b>	<b>Air fresheners aerosols (aqueous, non-aqueous, concentrated (mini-aerosol) Timed-release aerosols) for consumer use</b>	PC3_1,
<b>CS 3</b>	<b>Static room diffuser with rattan sticks</b>	PC3,
<b>CS 4</b>	<b>Candles</b>	PC3_2,
<b>CS 5</b>	<b>Electric room diffuser</b>	PC3_2,

**7.2. Conditions of use affecting exposure**

**7.2.1. Control of environmental exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a) / End use of air care products**

**7.2.2. Control of consumer exposure: Air care, instant action (aerosol sprays) (PC3\_1) / Air fresheners aerosols (aqueous, non-aqueous, concentrated (mini-aerosol) Timed-release aerosols) for consumer use ()**

Product (article) characteristics	
Covers concentrations up to 0,25 %	
Physical form of product	: Aerosol Sprays
Amount used (or contained in articles), frequency and duration of use/exposure	
Amount per Application	: <= 10 g/event
Exposure frequency	: 4 events/day
Duration	: Duration of exposure by events 15 min
Use frequency	: Frequent
Other conditions affecting consumers exposure	
Indoor or outdoor use	: Indoor use

**7.2.3. Control of consumer exposure: Air care products (PC3) / Static room diffuser with rattan sticks ()**

Product (article) characteristics	
Covers concentrations up to 89,8 %	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Amount per Application	: <= 367 g/event
Exposure frequency	: 1 events/day
Product amount in contact to skin	: <= 0,6 g/event
Duration	: Application duration <= 90,3 d
Duration	: Inhalation exposure duration per event <= 90,3 d
Use frequency	: Infrequent
Other conditions affecting consumers exposure	
Body parts exposed	: Assumes that potential dermal contact is limited to fingertips.
Indoor or outdoor use	: Indoor use
Room size	: >= 20 m <sup>3</sup>
Ventilation rate	: >= 0,6

#### 7.2.4. Control of consumer exposure: Air care, continuous action (solid and liquid) (PC3\_2) / Candles ()

Product (article) characteristics	
Covers concentrations up to 9,98 %	
Physical form of product	: No spray
Amount used (or contained in articles), frequency and duration of use/exposure	
Amount per Application	: <= 50 g/event
Exposure frequency	: 1 events/day
Duration	: Exposure duration 8 h
Use frequency	: Frequent
Other conditions affecting consumers exposure	
Indoor or outdoor use	: Indoor use

#### 7.2.5. Control of consumer exposure: Air care, continuous action (solid and liquid) (PC3\_2) / Electric room diffuser ()

Product (article) characteristics	
Covers concentrations up to 49,9 %	
Physical form of product	: No spray

Amount used (or contained in articles), frequency and duration of use/exposure	
Amount per Application	: <= 50 g/event
Exposure frequency	: 1 events/day
Duration	: Exposure duration 8 h
Use frequency	: Frequent
Other conditions affecting consumers exposure	
Indoor or outdoor use	: Indoor use

### 7.3. Exposure estimation and reference to its source

7.3.1. Environmental release and exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a) / End use of air care products

Additional information on exposure estimation
As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

7.3.2. Consumer exposure: Air care, instant action (aerosol sprays) (PC3\_1) / Air fresheners aerosols (aqueous, non-aqueous, concentrated (mini-aerosol) Timed-release aerosols) for consumer use ()

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	4,348 mg/m <sup>3</sup> (ECETOC TRA consumer v3)	0,29

7.3.3. Consumer exposure: Air care products (PC3) / Static room diffuser with rattan sticks ()

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	1,4 mg/m <sup>3</sup> (ConsExpo web 1.1.0)	0,093
dermal	systemic	long-term	0,296 mg/kg bw/day (ConsExpo web 1.1.0)	0,059
oral	systemic	long-term	0,014 mg/kg bw/day (ConsExpo web 1.1.0)	< 0,01
combined routes	systemic	long-term		0,155

7.3.4. Consumer exposure: Air care, continuous action (solid and liquid) (PC3\_2) / Candles ()

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,011 mg/m <sup>3</sup> (AISE)	< 0,01

			REACT)	
dermal	systemic	long-term	0,059 mg/kg bw/day (ECETOC TRA consumer v3)	0,012
combined routes	systemic	long-term		0,013

### 7.3.5. Consumer exposure: Air care, continuous action (solid and liquid) (PC3\_2) / Electric room diffuser ()

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,057 mg/m <sup>3</sup> (AISE REACT)	< 0,01
dermal	systemic	long-term	0,297 mg/kg bw/day (ECETOC TRA consumer v3)	0,059
combined routes	systemic	long-term		0,063

### 7.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

#### Environment

If a DU has OC/RMMs outside specifications in the ES, then the DU can evaluate whether he works inside the boundaries set by the ES through scaling in EUSES.

The main driving parameters are :

- local amount used (tonnage)
- release factor prior to on-site treatment
- on-site wastewater treatment presence and efficiency
- dilution factor

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

#### Human Health

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least

**ES 8: Formulation or re-packing****8.1. Title section**

<b>Exposure Scenario name</b>	: Formulation or re-packing, Industrial formulation of personal care products
<b>Structured Short Title</b>	: Formulation or re-packing

Environment		
<b>CS 1</b>	<b>Industrial formulation of personal care products</b>	ERC2, Industrial formulation of personal care products
Worker		
<b>CS 2</b>	<b>General process exposures, no sampling</b>	PROC1,, CS57
<b>CS 3</b>	<b>General process exposures, With sample collection</b>	PROC2,, CS56
<b>CS 4</b>	<b>General process exposures</b>	PROC3,
<b>CS 5</b>	<b>General exposures open batch process including aerosols</b>	PROC4,
<b>CS 6</b>	<b>Batch processes at elevated temperatures (e.g. solvents resin manufacture, grease manufacture)</b>	PROC3,
<b>CS 7</b>	<b>Sample collection</b>	PROC3,
<b>CS 8</b>	<b>Laboratory activities</b>	PROC15, CS36
<b>CS 9</b>	<b>Bulk transfers, Drum/batch transfers</b>	PROC8b, CS14, CS8
<b>CS 10</b>	<b>Mixing operations (open systems)</b>	PROC5, CS30
<b>CS 11</b>	<b>Transfer from/pouring from containers, Manual</b>	PROC8a, CS22, CS34
<b>CS 12</b>	<b>Tabletting, compression, extrusion or pelletisation</b>	PROC14
<b>CS 13</b>	<b>Drum and small package filling</b>	PROC9, CS6
<b>CS 14</b>	<b>Clean down and Maintenance</b>	PROC8a,
<b>CS 15</b>	<b>Storage</b>	PROC1,
<b>CS 16</b>	<b>Storage</b>	PROC2,

**8.2. Conditions of use affecting exposure**

**8.2.1. Control of environmental exposure: Formulation into mixture (ERC2) / Industrial formulation of personal care products**

**8.2.2. Control of worker exposure: Use in closed process, no likelihood of exposure (PROC1) / General process exposures () / no sampling (CS57)**

<b>Product (article) characteristics</b>
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Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity <= 1 h/day
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands.	
Avoid splashing.	
Provide a basic standard of general ventilation (1 to 3 air changes per hour).	
without local exhaust ventilation	
Use in closed process, no likelihood of exposure	
Occupational Health and Safety Management System: Advanced.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants)	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

**8.2.3. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / General process exposures () / with sample collection (CS56)**

<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity <= 1 h/day
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands.	
Avoid splashing.	
Provide a basic standard of general ventilation (1 to 3 air changes per hour).	
without local exhaust ventilation	
Closed continuous process with occasional controlled exposure	
Occupational Health and Safety Management System: Advanced.	

**Conditions and measures related to personal protection, hygiene and health evaluation**

General measures (eye irritants)

Wear suitable gloves tested to EN374.  
Dermal - minimum efficiency of  $\geq 80\%$ 

For further specification, refer to section 8 of the SDS.

**Other conditions affecting workers exposure**

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

**8.2.4. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / General process exposures ()**

**Product (article) characteristics**

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid

**Amount used (or contained in articles), frequency and duration of use/exposure**Use frequency : Duration of the activity  $\leq 1$  h/day**Technical and organisational conditions and measures**

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

without local exhaust ventilation

Closed batch process with occasional controlled exposure

Occupational Health and Safety Management System: Advanced.

**Conditions and measures related to personal protection, hygiene and health evaluation**

General measures (eye irritants)

Wear suitable gloves tested to EN374.  
Dermal - minimum efficiency of  $\geq 80\%$ 

For further specification, refer to section 8 of the SDS.

**Other conditions affecting workers exposure**

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

**8.2.5. Control of worker exposure: Chemical production where opportunity for exposure arises (PROC4) / General exposures open batch process including aerosols ( )**

<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity <= 1 h/day
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands.	
Avoid splashing.	
Provide a basic standard of general ventilation (1 to 3 air changes per hour).	
Local exhaust ventilation Inhalation - minimum efficiency of >= 90 %	
Occupational Health and Safety Management System: Advanced.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants)	
Use suitable eye protection.	
Wear suitable gloves tested to EN374. Dermal - minimum efficiency of >= 80 %	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

**8.2.6. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Batch processes at elevated temperatures (e.g. solvents resin manufacture, grease manufacture) ( )**

<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity <= 1 h/day
<b>Technical and organisational conditions and measures</b>	

Avoid direct eye contact with product, also via contamination on hands.
Avoid splashing.
Provide a basic standard of general ventilation (1 to 3 air changes per hour).
Local exhaust ventilation Inhalation - minimum efficiency of $\geq 90\%$
Closed batch process with occasional controlled exposure
Occupational Health and Safety Management System: Advanced.
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>
General measures (eye irritants)
For further specification, refer to section 8 of the SDS.
<b>Other conditions affecting workers exposure</b>
Indoor or outdoor use : Indoor use
Temperature : Assumes process temperature up to 40 °C

**8.2.7. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Sample collection ()**

<b>Product (article) characteristics</b>
Covers percentage substance in the product up to 100 %.
Physical form of product : Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>
Use frequency : Duration of the activity $\leq 15$ min/day
<b>Technical and organisational conditions and measures</b>
Avoid direct eye contact with product, also via contamination on hands.
Avoid splashing.
Provide a basic standard of general ventilation (1 to 3 air changes per hour).
without local exhaust ventilation
Closed batch process with occasional controlled exposure
Occupational Health and Safety Management System: Advanced.
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>
General measures (eye irritants)
Wear suitable gloves tested to EN374. Dermal - minimum efficiency of $\geq 80\%$
For further specification, refer to section 8 of the SDS.

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**Other conditions affecting workers exposure**

Indoor or outdoor use	:	Indoor use
Temperature	:	Assumes process temperature up to 40 °C

**8.2.8. Control of worker exposure: Use as laboratory reagent (PROC15) / Laboratory activities (CS36)****Product (article) characteristics**

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid

**Amount used (or contained in articles), frequency and duration of use/exposure**

Use frequency : Duration of the activity &lt;= 1 h/day

**Technical and organisational conditions and measures**

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Local exhaust ventilation  
Inhalation - minimum efficiency of >= 90 %

Occupational Health and Safety Management System: Advanced.

**Conditions and measures related to personal protection, hygiene and health evaluation**

General measures (eye irritants)

Wear suitable gloves tested to EN374.  
Dermal - minimum efficiency of >= 80 %

For further specification, refer to section 8 of the SDS.

**Other conditions affecting workers exposure**

Indoor or outdoor use	:	Indoor use
Temperature	:	Assumes process temperature up to 40 °C

**8.2.9. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Bulk transfers (CS14) / Drum/batch transfers (CS8)****Product (article) characteristics**

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid

**Amount used (or contained in articles), frequency and duration of use/exposure**

Use frequency : Duration of the activity &lt;= 1 h/day

<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands.	
Avoid splashing.	
Provide a basic standard of general ventilation (1 to 3 air changes per hour).	
Local exhaust ventilation Inhalation - minimum efficiency of $\geq 95\%$	
Occupational Health and Safety Management System: Advanced.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants)	
Use suitable eye protection.	
Wear suitable gloves tested to EN374. Dermal - minimum efficiency of $\geq 80\%$	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

#### 8.2.10. Control of worker exposure: Mixing or blending in batch processes (PROC5) / Mixing operations (open systems) (CS30)

<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid Aerosol
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands.	
Avoid splashing.	
Provide a basic standard of general ventilation (1 to 3 air changes per hour).	
Local exhaust ventilation Inhalation - minimum efficiency of $\geq 90\%$	
Occupational Health and Safety Management System: Advanced.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants)	

Use suitable eye protection.	
Wear suitable gloves tested to EN374. Dermal - minimum efficiency of $\geq 80\%$	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

**8.2.11. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Transfer from/pouring from containers (CS22) / Manual (CS34)**

<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity $\leq 1$ h/day
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands.	
Avoid splashing.	
Provide a basic standard of general ventilation (1 to 3 air changes per hour).	
Local exhaust ventilation Inhalation - minimum efficiency of $\geq 90\%$	
Occupational Health and Safety Management System: Advanced.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants)	
Use suitable eye protection.	
Wear suitable gloves tested to EN374. Dermal - minimum efficiency of $\geq 80\%$	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

**8.2.12. Control of worker exposure: Tableting, compression, extrusion, pelettisation, granulation (PROC14)**

<b>Product (article) characteristics</b>
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Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands.	
Avoid splashing.	
Provide a basic standard of general ventilation (1 to 3 air changes per hour).	
Local exhaust ventilation Inhalation - minimum efficiency of $\geq 90\%$	
Occupational Health and Safety Management System: Advanced.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants)	
Wear suitable gloves tested to EN374. Dermal - minimum efficiency of $\geq 80\%$	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

### 8.2.13. Control of worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9) / Drum and small package filling (CS6)

<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands.	
Avoid splashing.	
Provide a basic standard of general ventilation (1 to 3 air changes per hour).	
Local exhaust ventilation Inhalation - minimum efficiency of $\geq 90\%$	
Occupational Health and Safety Management System: Advanced.	

Conditions and measures related to personal protection, hygiene and health evaluation	
General measures (eye irritants)	
Wear suitable gloves tested to EN374. Dermal - minimum efficiency of $\geq 80\%$	
For further specification, refer to section 8 of the SDS.	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

#### 8.2.14. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Clean down and Maintenance ()

Product (article) characteristics	
Covers concentrations up to 0,8 %	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Use frequency	: Duration of the activity $\leq 4$ h/day
Technical and organisational conditions and measures	
Avoid direct eye contact with product, also via contamination on hands.	
Avoid splashing.	
Provide a basic standard of general ventilation (1 to 3 air changes per hour).	
without local exhaust ventilation	
Occupational Health and Safety Management System: Advanced.	
Conditions and measures related to personal protection, hygiene and health evaluation	
General measures (eye irritants)	
Use suitable eye protection.	
Wear suitable gloves tested to EN374. Dermal - minimum efficiency of $\geq 80\%$	
For further specification, refer to section 8 of the SDS.	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

#### 8.2.15. Control of worker exposure: Use in closed process, no likelihood of exposure (PROC1) / Storage ()

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<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity <= 15 min/day
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands.	
Avoid splashing.	
Use in closed process, no likelihood of exposure	
Occupational Health and Safety Management System: Advanced.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants)	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Outdoor use
Temperature	: Assumes process temperature up to 40 °C

**8.2.16. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Storage ()**

<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity <= 15 min/day
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands.	
Avoid splashing.	
Closed continuous process with occasional controlled exposure	
Occupational Health and Safety Management System: Advanced.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants)	

For further specification, refer to section 8 of the SDS.

#### Other conditions affecting workers exposure

Indoor or outdoor use : Outdoor use

Temperature : Assumes process temperature up to 40 °C

### 8.3. Exposure estimation and reference to its source

#### 8.3.1. Environmental release and exposure: Formulation into mixture (ERC2) / Industrial formulation of personal care products

##### Additional information on exposure estimation

As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

#### 8.3.2. Worker exposure: Use in closed process, no likelihood of exposure (PROC1) / General process exposures () / no sampling (CS57)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,011 mg/m <sup>3</sup> (ECETOC TRA worker v3)	< 0,01
dermal	systemic	long-term	0,034 mg/kg bw/day (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		< 0,01

#### 8.3.3. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / General process exposures () / with sample collection (CS56)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	1,101 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,018
dermal	systemic	long-term	0,274 mg/kg bw/day (ECETOC TRA worker v3)	0,027
combined routes	systemic	long-term		0,046

#### 8.3.4. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / General process exposures ()

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	3,304 mg/m <sup>3</sup>	0,055

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			(ECETOC TRA worker v3)	
dermal	systemic	long-term	0,138 mg/kg bw/day (ECETOC TRA worker v3)	0,014
combined routes	systemic	long-term		0,069

**8.3.5. Worker exposure: Chemical production where opportunity for exposure arises (PROC4) / General exposures open batch process including aerosols ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,551 mg/m <sup>3</sup> (ECETOC TRA worker v3)	< 0,01
dermal	systemic	long-term	1,372 mg/kg bw/day (ECETOC TRA worker v3)	0,137
combined routes	systemic	long-term		0,146

**8.3.6. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Batch processes at elevated temperatures (e.g. solvents resin manufacture, grease manufacture) ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,33 mg/m <sup>3</sup> (ECETOC TRA worker v3)	< 0,01
dermal	systemic	long-term	0,69 mg/kg bw/day (ECETOC TRA worker v3)	0,069
combined routes	systemic	long-term		0,075

**8.3.7. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Sample collection ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	1,652 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,028
dermal	systemic	long-term	0,138 mg/kg bw/day (ECETOC TRA worker v3)	0,014
combined routes	systemic	long-term		0,041

**8.3.8. Worker exposure: Use as laboratory reagent (PROC15) / Laboratory activities (CS36)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,551 mg/m <sup>3</sup> (ECETOC TRA worker v3)	< 0,01
dermal	systemic	long-term	0,068 mg/kg bw/day (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		0,016

**8.3.9. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Bulk transfers (CS14) / Drum/batch transfers (CS8)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,275 mg/m <sup>3</sup> (ECETOC TRA worker v3)	< 0,01
dermal	systemic	long-term	2,742 mg/kg bw/day (ECETOC TRA worker v3)	0,274
combined routes	systemic	long-term		0,279

**8.3.10. Worker exposure: Mixing or blending in batch processes (PROC5) / Mixing operations (open systems) (CS30)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	2,753 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,046
dermal	systemic	long-term	2,742 mg/kg bw/day (ECETOC TRA worker v3)	0,274
combined routes	systemic	long-term		0,32

**8.3.11. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Transfer from/pouring from containers (CS22) / Manual (CS34)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	1,101 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,018
dermal	systemic	long-term	2,742 mg/kg bw/day (ECETOC TRA worker v3)	0,274
combined routes	systemic	long-term		0,293

**8.3.12. Worker exposure: Tableting, compression, extrusion, pelettisation, granulation (PROC14)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	2,753 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,046
dermal	systemic	long-term	0,686 mg/kg bw/day (ECETOC TRA worker v3)	0,069
combined routes	systemic	long-term		0,114

**8.3.13. Worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9) / Drum and small package filling (CS6)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	2,753 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,046
dermal	systemic	long-term	1,372 mg/kg bw/day (ECETOC TRA worker v3)	0,137
combined routes	systemic	long-term		0,183

**8.3.14. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Clean down and Maintenance ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	3,304 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,055
dermal	systemic	long-term	0,274 mg/kg bw/day (ECETOC TRA worker v3)	0,027
combined routes	systemic	long-term		0,082

**8.3.15. Worker exposure: Use in closed process, no likelihood of exposure (PROC1) / Storage ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,00385 mg/m <sup>3</sup> (ECETOC TRA worker v3)	< 0,01
dermal	systemic	long-term	0,034 mg/kg bw/day (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		< 0,01

**8.3.16. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Storage ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,385 mg/m <sup>3</sup> (ECETOC TRA worker v3)	< 0,01
dermal	systemic	long-term	1,37 mg/kg bw/day (ECETOC TRA worker v3)	0,137
combined routes	systemic	long-term		0,143

**8.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES****Environment**

If a DU has OC/RMMs outside specifications in the ES, then the DU can evaluate whether he works inside the boundaries set by the ES through scaling in EUSES.

The main driving parameters are :

- local amount used (tonnage)
- release factor prior to on-site treatment
- on-site wastewater treatment presence and efficiency
- dilution factor

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

**Human Health**

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least

**ES 9: Formulation or re-packing****9.1. Title section**

<b>Exposure Scenario name</b>	: Formulation or re-packing, Industrial formulation of personal care end-products
<b>Structured Short Title</b>	: Formulation or re-packing

Environment		
<b>CS 1</b>	<b>Industrial formulation end-products</b>	ERC2, Industrial formulation end-products
Worker		
<b>CS 2</b>	<b>Uploading/unloading</b>	PROC8b,
<b>CS 3</b>	<b>Sampling of received goods</b>	PROC2,
<b>CS 4</b>	<b>Quality control of received goods</b>	PROC15,
<b>CS 5</b>	<b>Storage</b>	PROC1,
<b>CS 6</b>	<b>Closed system mixing including filling process equipment</b>	PROC3,
<b>CS 7</b>	<b>Batch mixing with significant contact including filling process</b>	PROC5,
<b>CS 8</b>	<b>Maintenance and cleaning</b>	PROC8a,
<b>CS 9</b>	<b>Sampling of compounds</b>	PROC2,
<b>CS 10</b>	<b>Quality control of compounds</b>	PROC15,
<b>CS 11</b>	<b>Charging/discharging from/to vessels/large</b>	PROC8b,
<b>CS 12</b>	<b>Transfer in a small containers</b>	PROC9,
<b>CS 13</b>	<b>Production of preparations or articles by tableting, compression, extrusion, pelletisation</b>	PROC14

**9.2. Conditions of use affecting exposure**

**9.2.1. Control of environmental exposure: Formulation into mixture (ERC2) / Industrial formulation end-products**

**9.2.2. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Uploading/unloading ()**

Product (article) characteristics	
Covers concentrations up to 0,4 %	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Use frequency	: Duration of the activity 1 h/day

<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands. Avoid splashing. Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Advanced.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants) Use suitable eye protection.	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

**9.2.3. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Sampling of received goods ()**

<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 25 %.	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity 15 min/day
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands. Avoid splashing. Closed continuous process with occasional controlled exposure Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Advanced.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants) For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

**9.2.4. Control of worker exposure: Use as laboratory reagent (PROC15) / Quality control of received goods ()**

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Product (article) characteristics	
Covers percentage substance in the product up to 25 %.	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Use frequency	: Duration of the activity 15 min/day
Technical and organisational conditions and measures	
Avoid direct eye contact with product, also via contamination on hands. Avoid splashing. Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Advanced.	
Conditions and measures related to personal protection, hygiene and health evaluation	
General measures (eye irritants)	
For further specification, refer to section 8 of the SDS.	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

**9.2.5. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1) / Storage ()**

Product (article) characteristics	
Covers percentage substance in the product up to 25 %.	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Use frequency	: Duration of the activity 1 h/day
Technical and organisational conditions and measures	
Avoid direct eye contact with product, also via contamination on hands. Avoid splashing. Provide a basic standard of general ventilation (1 to 3 air changes per hour). Use in closed process, no likelihood of exposure Occupational Health and Safety Management System: Advanced.	
Conditions and measures related to personal protection, hygiene and health evaluation	
General measures (eye irritants)	
For further specification, refer to section 8 of the SDS.	

**Other conditions affecting workers exposure**

Indoor or outdoor use	:	Indoor use
Temperature	:	Assumes process temperature up to 40 °C

**9.2.6. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Closed system mixing including filling process equipment ()**

**Product (article) characteristics**

Covers percentage substance in the product up to 25 %.

Physical form of product : Liquid

**Amount used (or contained in articles), frequency and duration of use/exposure**

Use frequency : Duration of the activity 4 h/day

**Technical and organisational conditions and measures**

Avoid direct eye contact with product, also via contamination on hands.  
 Avoid splashing.  
 Provide a basic standard of general ventilation (1 to 3 air changes per hour).  
 Occupational Health and Safety Management System: Advanced.  
 Closed batch process with occasional controlled exposure

**Conditions and measures related to personal protection, hygiene and health evaluation**

General measures (eye irritants)

For further specification, refer to section 8 of the SDS.

**Other conditions affecting workers exposure**

Indoor or outdoor use	:	Indoor use
Temperature	:	Assumes process temperature up to 40 °C

**9.2.7. Control of worker exposure: Mixing or blending in batch processes (PROC5) / Batch mixing with significant contact including filling process ()**

**Product (article) characteristics**

Covers concentrations up to 0,4 %

Physical form of product : Liquid

**Amount used (or contained in articles), frequency and duration of use/exposure**

Use frequency : Duration of the activity 4 h/day

**Technical and organisational conditions and measures**

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Avoid direct eye contact with product, also via contamination on hands.  
 Avoid splashing.  
 Provide a basic standard of general ventilation (1 to 3 air changes per hour).  
 Occupational Health and Safety Management System: Advanced.

**Conditions and measures related to personal protection, hygiene and health evaluation**

General measures (eye irritants)  
 Use suitable eye protection.

For further specification, refer to section 8 of the SDS.

**Other conditions affecting workers exposure**

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

**9.2.8. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Maintenance and cleaning ()****Product (article) characteristics**

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

**Amount used (or contained in articles), frequency and duration of use/exposure**

Use frequency : Duration of the activity 4 h/day

**Technical and organisational conditions and measures**

Avoid direct eye contact with product, also via contamination on hands.  
 Avoid splashing.  
 Provide a basic standard of general ventilation (1 to 3 air changes per hour).  
 Occupational Health and Safety Management System: Advanced.

**Conditions and measures related to personal protection, hygiene and health evaluation**

General measures (eye irritants)  
 Use suitable eye protection.

For further specification, refer to section 8 of the SDS.

**Other conditions affecting workers exposure**

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

**9.2.9. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Sampling of compounds ()****Product (article) characteristics**

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Covers percentage substance in the product up to 1 %.	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity 15 min/day
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands. Avoid splashing. Closed continuous process with occasional controlled exposure Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Advanced.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants)	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

## 9.2.10. Control of worker exposure: Use as laboratory reagent (PROC15) / Quality control of compounds ()

<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 1 %.	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity 15 min/day
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands. Avoid splashing. Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Advanced.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants)	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use

Temperature	: Assumes process temperature up to 40 °C
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### 9.2.11. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Charging/discharging from/to vessels/large ()

Product (article) characteristics	
Covers percentage substance in the product up to 1 %.	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Use frequency	: Duration of the activity 1 h/day
Technical and organisational conditions and measures	
<p>Avoid direct eye contact with product, also via contamination on hands.            Avoid splashing.            Provide a basic standard of general ventilation (1 to 3 air changes per hour).            Occupational Health and Safety Management System: Advanced.</p>	
Conditions and measures related to personal protection, hygiene and health evaluation	
<p>General measures (eye irritants)            Use suitable eye protection.</p>	
For further specification, refer to section 8 of the SDS.	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

### 9.2.12. Control of worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9) / Transfer in a small containers ()

Product (article) characteristics	
Covers percentage substance in the product up to 1 %.	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Use frequency	: Duration of the activity 1 h/day
Technical and organisational conditions and measures	
<p>Avoid direct eye contact with product, also via contamination on hands.            Avoid splashing.            Provide a basic standard of general ventilation (1 to 3 air changes per hour).            Occupational Health and Safety Management System: Advanced.</p>	

**Conditions and measures related to personal protection, hygiene and health evaluation**

General measures (eye irritants)

For further specification, refer to section 8 of the SDS.

**Other conditions affecting workers exposure**

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

**9.2.13. Control of worker exposure: Production of preparations or articles by tableting, compression, extrusion, pelletisation (PROC14)****Product (article) characteristics**

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

**Amount used (or contained in articles), frequency and duration of use/exposure**

Duration : Covers daily exposures up to 8 hours

**Technical and organisational conditions and measures**

Avoid direct eye contact with product, also via contamination on hands.  
 Avoid splashing.  
 Provide a basic standard of general ventilation (1 to 3 air changes per hour).  
 Occupational Health and Safety Management System: Advanced.

**Conditions and measures related to personal protection, hygiene and health evaluation**

General measures (eye irritants)

For further specification, refer to section 8 of the SDS.

**Other conditions affecting workers exposure**

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

**9.3. Exposure estimation and reference to its source****9.3.1. Environmental release and exposure: Formulation into mixture (ERC2) / Industrial formulation end-products****Additional information on exposure estimation**

As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

**9.3.2. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Uploading/unloading ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,551 mg/m <sup>3</sup> (ECETOC TRA worker v3)	< 0,01
dermal	systemic	long-term	1,371 mg/kg bw/day (ECETOC TRA worker v3)	0,137
combined routes	systemic	long-term		0,146

**9.3.3. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Sampling of received goods ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,33 mg/m <sup>3</sup> (ECETOC TRA worker v3)	< 0,01
dermal	systemic	long-term	0,822 mg/kg bw/day (ECETOC TRA worker v3)	0,082
combined routes	systemic	long-term		0,088

**9.3.4. Worker exposure: Use as laboratory reagent (PROC15) / Quality control of received goods ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	1,652 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,028
dermal	systemic	long-term	0,204 mg/kg bw/day (ECETOC TRA worker v3)	0,02
combined routes	systemic	long-term		0,048

**9.3.5. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1) / Storage ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,00661 mg/m <sup>3</sup> (ECETOC TRA worker v3)	< 0,01
dermal	systemic	long-term	0,02 mg/kg bw/day (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		< 0,01

**9.3.6. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Closed system mixing including filling process equipment ( )**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	5,947 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,099
dermal	systemic	long-term	0,414 mg/kg bw/day (ECETOC TRA worker v3)	0,041
combined routes	systemic	long-term		0,141

**9.3.7. Worker exposure: Mixing or blending in batch processes (PROC5) / Batch mixing with significant contact including filling process ( )**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	1,652 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,028
dermal	systemic	long-term	1,371 mg/kg bw/day (ECETOC TRA worker v3)	0,137
combined routes	systemic	long-term		0,165

**9.3.8. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Maintenance and cleaning ( )**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	3,304 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,055
dermal	systemic	long-term	1,371 mg/kg bw/day (ECETOC TRA worker v3)	0,137
combined routes	systemic	long-term		0,192

**9.3.9. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Sampling of compounds ( )**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,055 mg/m <sup>3</sup> (ECETOC TRA worker v3)	< 0,01
dermal	systemic	long-term	0,137 mg/kg	0,014

			bw/day (ECETOC TRA worker v3)	
combined routes	systemic	long-term		0,015

### 9.3.10. Worker exposure: Use as laboratory reagent (PROC15) / Quality control of compounds ( )

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,275 mg/m <sup>3</sup> (ECETOC TRA worker v3)	< 0,01
dermal	systemic	long-term	0,034 mg/kg bw/day (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		< 0,01

### 9.3.11. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Charging/discharging from/to vessels/large ( )

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,551 mg/m <sup>3</sup> (ECETOC TRA worker v3)	< 0,01
dermal	systemic	long-term	1,371 mg/kg bw/day (ECETOC TRA worker v3)	0,137
combined routes	systemic	long-term		0,146

### 9.3.12. Worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9) / Transfer in a small containers ( )

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,551 mg/m <sup>3</sup> (ECETOC TRA worker v3)	< 0,01
dermal	systemic	long-term	0,686 mg/kg bw/day (ECETOC TRA worker v3)	0,069
combined routes	systemic	long-term	(ECETOC TRA worker v3)	0,078

### 9.3.13. Worker exposure: Production of preparations or articles by tableting, compression, extrusion, pelletisation (PROC14)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	2,753 mg/m <sup>3</sup>	0,046

			(ECETOC TRA worker v3)	
dermal	systemic	long-term	0,343 mg/kg bw/day (ECETOC TRA worker v3)	0,034
combined routes	systemic	long-term		0,08

#### 9.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

##### Environment

If a DU has OC/RMMs outside specifications in the ES, then the DU can evaluate whether he works inside the boundaries set by the ES through scaling in EUSES.

The main driving parameters are :

- local amount used (tonnage)
- release factor prior to on-site treatment
- on-site wastewater treatment presence and efficiency
- dilution factor

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

##### Human Health

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least

**ES 10: Consumer use****10.1. Title section**

<b>Exposure Scenario name</b>	: Consumer use, End use of cosmetic products
<b>Structured Short Title</b>	: Consumer use

Environment		
<b>CS 1</b>	<b>End use of cosmetic products</b>	ERC8a, End use of cosmetic products
Consumer		
<b>CS 2</b>	<b>End use of cosmetic products</b>	PC39,
<b>CS 3</b>	<b>End use of cosmetic products</b>	PC28,

**10.2. Conditions of use affecting exposure**

**10.2.1. Control of environmental exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a) / End use of cosmetic products**

**10.2.2. Control of consumer exposure: Cosmetics, personal care products (PC39) / End use of cosmetic products ()**

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Amount used (or contained in articles), frequency and duration of use/exposure	
Exposure frequency	: 1 events/day
Use frequency	: Frequent
Other conditions affecting consumers exposure	
Indoor or outdoor use	: Indoor use

**10.2.3. Control of consumer exposure: Perfumes, fragrances (PC28) / End use of cosmetic products ()**

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Amount used (or contained in articles), frequency and duration of use/exposure	
Exposure frequency	: 1 events/day
Use frequency	: Frequent

**Other conditions affecting consumers exposure**

Indoor or outdoor use : Indoor use

**10.3. Exposure estimation and reference to its source****10.3.1. Environmental release and exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a) / End use of cosmetic products****Additional information on exposure estimation**

As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

**10.3.2. Consumer exposure: Cosmetics, personal care products (PC39) / End use of cosmetic products ()****Additional information on exposure estimation**

In accordance to the Article 14 (5b) of the REACH Regulation (EC) No 1907/2006, exposure estimation and risk characterisation for human health does not need to be performed for end uses in cosmetic products within the scope of Directive 76/768/EEC.

**10.3.3. Consumer exposure: Perfumes, fragrances (PC28) / End use of cosmetic products ()****Additional information on exposure estimation**

In accordance to the Article 14 (5b) of the REACH Regulation (EC) No 1907/2006, exposure estimation and risk characterisation for human health does not need to be performed for end uses in cosmetic products within the scope of Directive 76/768/EEC.

**10.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES Environment**

If a DU has OC/RMMs outside specifications in the ES, then the DU can evaluate whether he works inside the boundaries set by the ES through scaling in EUSES.

The main driving parameters are :

- local amount used (tonnage)
- release factor prior to on-site treatment
- on-site wastewater treatment presence and efficiency
- dilution factor

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

**Human Health**

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least

**ES 11: Formulation or re-packing****11.1. Title section**

<b>Exposure Scenario name</b>	: Formulation or re-packing, Industrial formulation of cosmetics compounds
<b>Structured Short Title</b>	: Formulation or re-packing

Environment		
<b>CS 1</b>	<b>Formulation</b>	ERC2, SU 10
Worker		
<b>CS 2</b>	<b>Uploading/unloading</b>	PROC8b,
<b>CS 3</b>	<b>Sampling of received goods</b>	PROC2,
<b>CS 4</b>	<b>Quality control of received goods</b>	PROC15,
<b>CS 5</b>	<b>Storage</b>	PROC1,
<b>CS 6</b>	<b>Closed system mixing including filling process equipment</b>	PROC3,
<b>CS 7</b>	<b>Batch mixing with significant contact including filling process</b>	PROC5,
<b>CS 8</b>	<b>Maintenance and cleaning</b>	PROC8a,
<b>CS 9</b>	<b>Sampling of compounds</b>	PROC2,
<b>CS 10</b>	<b>Quality control of compounds</b>	PROC15,
<b>CS 11</b>	<b>Charging/discharging from/to vessels/large</b>	PROC8b,
<b>CS 12</b>	<b>Transfer in a small containers</b>	PROC9,

**11.2. Conditions of use affecting exposure**

**11.2.1. Control of environmental exposure: Formulation into mixture (ERC2) / Formulation (SU 10)**

**11.2.2. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Uploading/unloading ()**

Product (article) characteristics	
Covers concentrations up to 0,8 %	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Use frequency	: Duration of the activity 1 h/day
Technical and organisational conditions and measures	
Avoid direct eye contact with product, also via contamination on hands. Avoid splashing. Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Advanced.	

**Conditions and measures related to personal protection, hygiene and health evaluation**

General measures (eye irritants)  
Use suitable eye protection.

For further specification, refer to section 8 of the SDS.

**Other conditions affecting workers exposure**

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

**11.2.3. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Sampling of received goods ()****Product (article) characteristics**

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid

**Amount used (or contained in articles), frequency and duration of use/exposure**

Use frequency : Duration of the activity 15 min/day

**Technical and organisational conditions and measures**

Avoid direct eye contact with product, also via contamination on hands.  
Avoid splashing.  
Closed continuous process with occasional controlled exposure  
Provide a basic standard of general ventilation (1 to 3 air changes per hour).  
Occupational Health and Safety Management System: Advanced.

**Conditions and measures related to personal protection, hygiene and health evaluation**

General measures (eye irritants)

For further specification, refer to section 8 of the SDS.

**Other conditions affecting workers exposure**

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

**11.2.4. Control of worker exposure: Use as laboratory reagent (PROC15) / Quality control of received goods ()****Product (article) characteristics**

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid

<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity 15 min/day
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands. Avoid splashing. Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Advanced.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants)	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

#### 11.2.5. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1) / Storage ()

<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity 1 h/day
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands. Avoid splashing. Provide a basic standard of general ventilation (1 to 3 air changes per hour). Use in closed process, no likelihood of exposure Occupational Health and Safety Management System: Advanced.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants)	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

**11.2.6. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Closed system mixing including filling process equipment ( )**

<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity 4 h/day
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands. Avoid splashing. Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Advanced. Closed batch process with occasional controlled exposure	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants)	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

**11.2.7. Control of worker exposure: Mixing or blending in batch processes (PROC5) / Batch mixing with significant contact including filling process ( )**

<b>Product (article) characteristics</b>	
Covers concentrations up to 0,8 %	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity 4 h/day
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands. Avoid splashing. Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Advanced.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	

General measures (eye irritants) Use suitable eye protection.	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

#### 11.2.8. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Maintenance and cleaning ()

<b>Product (article) characteristics</b>	
Covers concentrations up to 0,8 %	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity 4 h/day
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands. Avoid splashing. Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Advanced.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants) Use suitable eye protection.	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

#### 11.2.9. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Sampling of compounds ()

<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 25 %.	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	

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Use frequency	: Duration of the activity 15 min/day
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands. Avoid splashing. Closed continuous process with occasional controlled exposure Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Advanced.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants)	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

**11.2.10. Control of worker exposure: Use as laboratory reagent (PROC15) / Quality control of compounds ()**

<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 25 %.	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity 15 min/day
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands. Avoid splashing. Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Advanced.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants)	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

**11.2.11. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Charging/discharging from/to vessels/large ()**

<b>Product (article) characteristics</b>	
Covers concentrations up to 0,8 %	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity 1 h/day
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands. Avoid splashing. Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Advanced.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants) Use suitable eye protection.	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

**11.2.12. Control of worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9) / Transfer in a small containers ()**

<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 25 %.	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity 1 h/day
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands. Avoid splashing. Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Advanced.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants)	
For further specification, refer to section 8 of the SDS.	

**Other conditions affecting workers exposure**

Indoor or outdoor use	:	Indoor use
Temperature	:	Assumes process temperature up to 40 °C

**11.3. Exposure estimation and reference to its source****11.3.1. Environmental release and exposure: Formulation into mixture (ERC2) / Formulation (SU 10)****Additional information on exposure estimation**

As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

**11.3.2. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Uploading/unloading ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,551 mg/m <sup>3</sup> (ECETOC TRA worker v3)	< 0,01
dermal	systemic	long-term	1,371 mg/kg bw/day (ECETOC TRA worker v3)	0,137
combined routes	systemic	long-term		0,146

**11.3.3. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Sampling of received goods ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,551 mg/m <sup>3</sup> (ECETOC TRA worker v3)	< 0,01
dermal	systemic	long-term	1,37 mg/kg bw/day (ECETOC TRA worker v3)	0,137
combined routes	systemic	long-term		0,146

**11.3.4. Worker exposure: Use as laboratory reagent (PROC15) / Quality control of received goods ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	2,753 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,046
dermal	systemic	long-term	0,34 mg/kg bw/day (ECETOC TRA)	0,034

			worker v3)	
combined routes	systemic	long-term		0,08

### 11.3.5. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1) / Storage ()

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,011 mg/m <sup>3</sup> (ECETOC TRA worker v3)	< 0,01
dermal	systemic	long-term	0,034 mg/kg bw/day (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		< 0,01

### 11.3.6. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Closed system mixing including filling process equipment ()

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	9,912 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,165
dermal	systemic	long-term	0,69 mg/kg bw/day (ECETOC TRA worker v3)	0,069
combined routes	systemic	long-term		0,234

### 11.3.7. Worker exposure: Mixing or blending in batch processes (PROC5) / Batch mixing with significant contact including filling process ()

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	1,652 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,028
dermal	systemic	long-term	1,371 mg/kg bw/day (ECETOC TRA worker v3)	0,137
combined routes	systemic	long-term		0,165

### 11.3.8. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Maintenance and cleaning ()

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	3,304 mg/m <sup>3</sup>	0,055

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			(ECETOC TRA worker v3)	
dermal	systemic	long-term	1,371 mg/kg bw/day (ECETOC TRA worker v3)	0,137
combined routes	systemic	long-term		0,192

**11.3.9. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Sampling of compounds ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,33 mg/m <sup>3</sup> (ECETOC TRA worker v3)	< 0,01
dermal	systemic	long-term	0,822 mg/kg bw/day (ECETOC TRA worker v3)	0,082
combined routes	systemic	long-term		0,088

**11.3.10. Worker exposure: Use as laboratory reagent (PROC15) / Quality control of compounds ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	1,625 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,028
dermal	systemic	long-term	0,204 mg/kg bw/day (ECETOC TRA worker v3)	0,02
combined routes	systemic	long-term		0,048

**11.3.11. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Charging/discharging from/to vessels/large ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,551 mg/m <sup>3</sup> (ECETOC TRA worker v3)	< 0,01
dermal	systemic	long-term	1,371 mg/kg bw/day (ECETOC TRA worker v3)	0,137
combined routes	systemic	long-term		0,146

**11.3.12. Worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9) / Transfer in a small containers ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	3,304 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,055
dermal	systemic	long-term	4,116 mg/kg bw/day (ECETOC TRA worker v3)	0,412
combined routes	systemic	long-term		0,467

#### 11.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

##### Environment

If a DU has OC/RMMs outside specifications in the ES, then the DU can evaluate whether he works inside the boundaries set by the ES through scaling in EUSES.

The main driving parameters are :

- local amount used (tonnage)
- release factor prior to on-site treatment
- on-site wastewater treatment presence and efficiency
- dilution factor

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

##### Human Health

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least

**ES 12: Formulation or re-packing****12.1. Title section**

<b>Exposure Scenario name</b>	: Formulation or re-packing, Industrial, Formulation of fragranced end-products (IFRA GES 2)
<b>Structured Short Title</b>	: Formulation or re-packing

Environment		
<b>CS 1</b>	<b>Industrial formulation end-products</b>	ERC2, Industrial formulation end-products
Worker		
<b>CS 2</b>	<b>Uploading/unloading</b>	PROC8b,
<b>CS 3</b>	<b>Sampling of received goods</b>	PROC2,
<b>CS 4</b>	<b>Quality control of received goods</b>	PROC15,
<b>CS 5</b>	<b>Storage</b>	PROC1,
<b>CS 6</b>	<b>Closed system mixing including filling process equipment</b>	PROC3,
<b>CS 7</b>	<b>Batch mixing with significant contact including filling process</b>	PROC5,
<b>CS 8</b>	<b>Maintenance and cleaning</b>	PROC8a,
<b>CS 9</b>	<b>Sampling of compounds</b>	PROC2,
<b>CS 10</b>	<b>Quality control of compounds</b>	PROC15,
<b>CS 11</b>	<b>Charging/discharging from/to vessels/large</b>	PROC8b,
<b>CS 12</b>	<b>Transfer in a small containers</b>	PROC9,
<b>CS 13</b>	<b>Production of preparations or articles by tableting, compression, extrusion, pelletisation</b>	PROC14

**12.2. Conditions of use affecting exposure**

**12.2.1. Control of environmental exposure: Formulation into mixture (ERC2) / Industrial formulation end-products**

**12.2.2. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Uploading/unloading ()**

Product (article) characteristics	
Covers concentrations up to	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Use frequency	: Duration of the activity 1 h/day

<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands. Avoid splashing. Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Advanced.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants) Use suitable eye protection.	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

**12.2.3. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Sampling of received goods ()**

<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 1 %.	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity 15 min/day
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands. Avoid splashing. Closed continuous process with occasional controlled exposure Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Advanced.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants) For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

**12.2.4. Control of worker exposure: Use as laboratory reagent (PROC15) / Quality control of received goods ()**

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<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 1 %.	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity 15 min/day
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands. Avoid splashing. Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Advanced.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants)	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

#### 12.2.5. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1) / Storage ()

<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 1 %.	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity 1 h/day
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands. Avoid splashing. Provide a basic standard of general ventilation (1 to 3 air changes per hour). Use in closed process, no likelihood of exposure Occupational Health and Safety Management System: Advanced.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants)	
For further specification, refer to section 8 of the SDS.	

**Other conditions affecting workers exposure**

Indoor or outdoor use	:	Indoor use
Temperature	:	Assumes process temperature up to 40 °C

**12.2.6. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Closed system mixing including filling process equipment ()**

**Product (article) characteristics**

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

**Amount used (or contained in articles), frequency and duration of use/exposure**

Use frequency : Duration of the activity 4 h/day

**Technical and organisational conditions and measures**

Avoid direct eye contact with product, also via contamination on hands.  
 Avoid splashing.  
 Provide a basic standard of general ventilation (1 to 3 air changes per hour).  
 Occupational Health and Safety Management System: Advanced.  
 Closed batch process with occasional controlled exposure

**Conditions and measures related to personal protection, hygiene and health evaluation**

General measures (eye irritants)

For further specification, refer to section 8 of the SDS.

**Other conditions affecting workers exposure**

Indoor or outdoor use	:	Indoor use
Temperature	:	Assumes process temperature up to 40 °C

**12.2.7. Control of worker exposure: Mixing or blending in batch processes (PROC5) / Batch mixing with significant contact including filling process ()**

**Product (article) characteristics**

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

**Amount used (or contained in articles), frequency and duration of use/exposure**

Use frequency : Duration of the activity 4 h/day

**Technical and organisational conditions and measures**

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Avoid direct eye contact with product, also via contamination on hands.  
 Avoid splashing.  
 Provide a basic standard of general ventilation (1 to 3 air changes per hour).  
 Occupational Health and Safety Management System: Advanced.

**Conditions and measures related to personal protection, hygiene and health evaluation**

General measures (eye irritants)  
 Use suitable eye protection.

For further specification, refer to section 8 of the SDS.

**Other conditions affecting workers exposure**

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

**12.2.8. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Maintenance and cleaning ()****Product (article) characteristics**

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

**Amount used (or contained in articles), frequency and duration of use/exposure**

Use frequency : Duration of the activity 4 h/day

**Technical and organisational conditions and measures**

Avoid direct eye contact with product, also via contamination on hands.  
 Avoid splashing.  
 Provide a basic standard of general ventilation (1 to 3 air changes per hour).  
 Occupational Health and Safety Management System: Advanced.

**Conditions and measures related to personal protection, hygiene and health evaluation**

General measures (eye irritants)  
 Use suitable eye protection.

For further specification, refer to section 8 of the SDS.

**Other conditions affecting workers exposure**

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

**12.2.9. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Sampling of compounds ()****Product (article) characteristics**

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Covers percentage substance in the product up to 1 %.	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity 15 min/day
<b>Technical and organisational conditions and measures</b>	
<p>Avoid direct eye contact with product, also via contamination on hands.          Avoid splashing.          Closed continuous process with occasional controlled exposure          Provide a basic standard of general ventilation (1 to 3 air changes per hour).          Occupational Health and Safety Management System: Advanced.</p>	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants)	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

## 12.2.10. Control of worker exposure: Use as laboratory reagent (PROC15) / Quality control of compounds ()

<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 1 %.	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity 15 min/day
<b>Technical and organisational conditions and measures</b>	
<p>Avoid direct eye contact with product, also via contamination on hands.          Avoid splashing.          Provide a basic standard of general ventilation (1 to 3 air changes per hour).          Occupational Health and Safety Management System: Advanced.</p>	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants)	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use

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Temperature	: Assumes process temperature up to 40 °C
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**12.2.11. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Charging/discharging from/to vessels/large ()**

Product (article) characteristics	
Covers percentage substance in the product up to 1 %.	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Use frequency	: Duration of the activity 1 h/day
Technical and organisational conditions and measures	
Avoid direct eye contact with product, also via contamination on hands. Avoid splashing. Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Advanced.	
Conditions and measures related to personal protection, hygiene and health evaluation	
General measures (eye irritants) Use suitable eye protection.	
For further specification, refer to section 8 of the SDS.	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

**12.2.12. Control of worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9) / Transfer in a small containers ()**

Product (article) characteristics	
Covers percentage substance in the product up to 1 %.	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Use frequency	: Duration of the activity 1 h/day
Technical and organisational conditions and measures	
Avoid direct eye contact with product, also via contamination on hands. Avoid splashing. Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Advanced.	

**Conditions and measures related to personal protection, hygiene and health evaluation**

General measures (eye irritants)

For further specification, refer to section 8 of the SDS.

**Other conditions affecting workers exposure**

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

**12.2.13. Control of worker exposure: Production of preparations or articles by tableting, compression, extrusion, pelletisation (PROC14)****Product (article) characteristics**

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

**Amount used (or contained in articles), frequency and duration of use/exposure**

Duration : Covers daily exposures up to 8 hours

**Technical and organisational conditions and measures**

Avoid direct eye contact with product, also via contamination on hands.  
 Avoid splashing.  
 Provide a basic standard of general ventilation (1 to 3 air changes per hour).  
 Occupational Health and Safety Management System: Advanced.

**Conditions and measures related to personal protection, hygiene and health evaluation**

General measures (eye irritants)

For further specification, refer to section 8 of the SDS.

**Other conditions affecting workers exposure**

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

**12.3. Exposure estimation and reference to its source****12.3.1. Environmental release and exposure: Formulation into mixture (ERC2) / Industrial formulation end-products****Additional information on exposure estimation**

As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

**12.3.2. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Uploading/unloading ()**

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Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,551 mg/m <sup>3</sup> (ECETOC TRA worker v3)	< 0,01
dermal	systemic	long-term	1,371 mg/kg bw/day (ECETOC TRA worker v3)	0,137
combined routes	systemic	long-term		0,146

**12.3.3. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Sampling of received goods ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,055 mg/m <sup>3</sup> (ECETOC TRA worker v3)	< 0,01
dermal	systemic	long-term	0,137 mg/kg bw/day (ECETOC TRA worker v3)	0,014
combined routes	systemic	long-term		0,015

**12.3.4. Worker exposure: Use as laboratory reagent (PROC15) / Quality control of received goods ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,275 mg/m <sup>3</sup> (ECETOC TRA worker v3)	< 0,01
dermal	systemic	long-term	0,034 mg/kg bw/day (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		< 0,01

**12.3.5. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1) / Storage ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,0011 mg/m <sup>3</sup> (ECETOC TRA worker v3)	< 0,01
dermal	systemic	long-term	0,0034 mg/kg bw/day (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		< 0,01

**12.3.6. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Closed system mixing including filling process equipment ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,991 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,017
dermal	systemic	long-term	0,069 mg/kg bw/day (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		0,023

**12.3.7. Worker exposure: Mixing or blending in batch processes (PROC5) / Batch mixing with significant contact including filling process ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	1,652 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,028
dermal	systemic	long-term	1,371 mg/kg bw/day (ECETOC TRA worker v3)	0,137
combined routes	systemic	long-term		0,165

**12.3.8. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Maintenance and cleaning ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	3,304 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,055
dermal	systemic	long-term	1,371 mg/kg bw/day (ECETOC TRA worker v3)	0,137
combined routes	systemic	long-term		0,192

**12.3.9. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Sampling of compounds ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,055 mg/m <sup>3</sup> (ECETOC TRA worker v3)	< 0,01
dermal	systemic	long-term	0,137 mg/kg	0,014

			bw/day (ECETOC TRA worker v3)	
combined routes	systemic	long-term		0,015

**12.3.10. Worker exposure: Use as laboratory reagent (PROC15) / Quality control of compounds ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,275 mg/m <sup>3</sup> (ECETOC TRA worker v3)	< 0,01
dermal	systemic	long-term	0,034 mg/kg bw/day (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		< 0,01

**12.3.11. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Charging/discharging from/to vessels/large ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,551 mg/m <sup>3</sup> (ECETOC TRA worker v3)	< 0,01
dermal	systemic	long-term	1,371 mg/kg bw/day (ECETOC TRA worker v3)	0,137
combined routes	systemic	long-term		0,146

**12.3.12. Worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9) / Transfer in a small containers ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,551 mg/m <sup>3</sup> (ECETOC TRA worker v3)	< 0,01
dermal	systemic	long-term	0,686 mg/kg bw/day (ECETOC TRA worker v3)	0,069
combined routes	systemic	long-term		0,078

**12.3.13. Worker exposure: Production of preparations or articles by tableting, compression, extrusion, pelletisation (PROC14)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	2,753 mg/m <sup>3</sup> (ECETOC TRA)	0,046

			worker v3)	
dermal	systemic	long-term	0,343 mg/kg bw/day (ECETOC TRA worker v3)	0,034
combined routes	systemic	long-term		0,08

#### 12.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

##### Environment

If a DU has OC/RMMs outside specifications in the ES, then the DU can evaluate whether he works inside the boundaries set by the ES through scaling in EUSES.

The main driving parameters are :

- local amount used (tonnage)
- release factor prior to on-site treatment
- on-site wastewater treatment presence and efficiency
- dilution factor

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

##### Human Health

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least

**ES 13: Formulation or re-packing****13.1. Title section**

<b>Exposure Scenario name</b>	: Formulation or re-packing, Formulation of fragrance compounds (IFRA GES 1)
<b>Structured Short Title</b>	: Formulation or re-packing

Environment		
<b>CS 1</b>	<b>Formulation of fragrance compounds (IFRA GES 1)</b>	ERC2, Formulation of fragrance compounds (IFRA GES 1)
Worker		
<b>CS 2</b>	<b>Material transfers from/to vessel/container at dedicated facility (IFRA F-1)</b>	PROC8b, CS1
<b>CS 3</b>	<b>Storage (IFRA F-2)</b>	PROC1, CS2
<b>CS 4</b>	<b>Mixing operations (closed systems) in batch process including filling of equipment and sample collection (IFRA F-3)</b>	PROC3, CS3
<b>CS 5</b>	<b>Mixing operations (open systems) in batch process including filling of equipment and sample collection (IFRA F-4)</b>	PROC5, CS4
<b>CS 6</b>	<b>QC laboratory (IFRA F-5)</b>	PROC15, CS5
<b>CS 7</b>	<b>Transfer of substance or preparation into small containers (dedicated filling line, including weighing) (IFRA F-6)</b>	PROC9, CS6
<b>CS 8</b>	<b>Equipment cleaning and maintenance (IFRA F-7)</b>	PROC8a, CS7

**13.2. Conditions of use affecting exposure**

**13.2.1. Control of environmental exposure: Formulation into mixture (ERC2) / Formulation of fragrance compounds (IFRA GES 1)**

**13.2.2. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Material transfers from/to vessel/container at dedicated facility (IFRA F-1) (CS1)**

Product (article) characteristics	
Covers percentage substance in the product up to 1 %.	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Use frequency	: Duration of the activity 1 h/day
Technical and organisational conditions and measures	
Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Advanced.	

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**Conditions and measures related to personal protection, hygiene and health evaluation**

Use suitable eye protection.

For further specification, refer to section 8 of the SDS.

**Other conditions affecting workers exposure**

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

**13.2.3. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1) / Storage (IFRA F-2) (CS2)****Product (article) characteristics**

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

**Amount used (or contained in articles), frequency and duration of use/exposure**

Use frequency : Duration of the activity 1 h/day

**Technical and organisational conditions and measures**Provide a basic standard of general ventilation (1 to 3 air changes per hour).  
Occupational Health and Safety Management System: Advanced.**Conditions and measures related to personal protection, hygiene and health evaluation**

Use suitable eye protection.

For further specification, refer to section 8 of the SDS.

**Other conditions affecting workers exposure**

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

**13.2.4. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Mixing operations (closed systems) in batch process including filling of equipment and sample collection (IFRA F-3) (CS3)****Product (article) characteristics**

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

**Amount used (or contained in articles), frequency and duration of use/exposure**

Use frequency : Duration of the activity 4 h/day

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Technical and organisational conditions and measures	
Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Advanced.	
Conditions and measures related to personal protection, hygiene and health evaluation	
Use suitable eye protection.	
For further specification, refer to section 8 of the SDS.	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

### 13.2.5. Control of worker exposure: Mixing or blending in batch processes (PROC5) / Mixing operations (open systems) in batch process including filling of equipment and sample collection (IFRA F-4) (CS4)

Product (article) characteristics	
Covers percentage substance in the product up to 1 %.	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Use frequency	: Duration of the activity 4 h/day
Technical and organisational conditions and measures	
Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Advanced.	
Conditions and measures related to personal protection, hygiene and health evaluation	
Use suitable eye protection.	
For further specification, refer to section 8 of the SDS.	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

### 13.2.6. Control of worker exposure: Use as laboratory reagent (PROC15) / QC laboratory (IFRA F-5) (CS5)

Product (article) characteristics	
Covers percentage substance in the product up to 1 %.	
Physical form of product	: Liquid

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Amount used (or contained in articles), frequency and duration of use/exposure	
Use frequency	: Duration of the activity 15 min/day
Technical and organisational conditions and measures	
Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Advanced.	
Conditions and measures related to personal protection, hygiene and health evaluation	
For further specification, refer to section 8 of the SDS.	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

**13.2.7. Control of worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9) / Transfer of substance or preparation into small containers (dedicated filling line, including weighing) (IFRA F-6) (CS6)**

Product (article) characteristics	
Covers percentage substance in the product up to 1 %.	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Use frequency	: Duration of the activity 1 h/day
Technical and organisational conditions and measures	
Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Advanced.	
Conditions and measures related to personal protection, hygiene and health evaluation	
Use suitable eye protection.	
For further specification, refer to section 8 of the SDS.	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

**13.2.8. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Equipment cleaning and maintenance (IFRA F-7) (CS7)**

Product (article) characteristics
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Covers percentage substance in the product up to 1 %.	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity 4 h/day
<b>Technical and organisational conditions and measures</b>	
Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Advanced.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
Use suitable eye protection.	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

### 13.3. Exposure estimation and reference to its source

#### 13.3.1. Environmental release and exposure: Formulation into mixture (ERC2) / Formulation of fragrance compounds (IFRA GES 1)

<b>Additional information on exposure estimation</b>
As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

#### 13.3.2. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Material transfers from/to vessel/container at dedicated facility (IFRA F-1) (CS1)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,551 mg/m <sup>3</sup> (ECETOC TRA worker v3)	< 0,01
dermal	systemic	long-term	1,371 mg/kg bw/day (ECETOC TRA worker v3)	0,137
combined routes	systemic	long-term		0,146

#### 13.3.3. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1) / Storage (IFRA F-2) (CS2)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,001 mg/m <sup>3</sup>	< 0,01

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			(ECETOC TRA worker v3)	
dermal	systemic	long-term	0,0034 mg/kg bw/day (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		< 0,01

**13.3.4. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Mixing operations (closed systems) in batch process including filling of equipment and sample collection (IFRA F-3) (CS3)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,991 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,017
dermal	systemic	long-term	0,069 mg/kg bw/day (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		0,023

**13.3.5. Worker exposure: Mixing or blending in batch processes (PROC5) / Mixing operations (open systems) in batch process including filling of equipment and sample collection (IFRA F-4) (CS4)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	1,652 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,028
dermal	systemic	long-term	1,371 mg/kg bw/day (ECETOC TRA worker v3)	0,137
combined routes	systemic	long-term		0,165

**13.3.6. Worker exposure: Use as laboratory reagent (PROC15) / QC laboratory (IFRA F-5) (CS5)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,275 mg/m <sup>3</sup> (ECETOC TRA worker v3)	< 0,01
dermal	systemic	long-term	0,034 mg/kg bw/day (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		< 0,01

**13.3.7. Worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9) / Transfer of substance or preparation into small containers (dedicated filling line, including weighing) (IFRA F-6) (CS6)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,551 mg/m <sup>3</sup> (ECETOC TRA worker v3)	< 0,01
dermal	systemic	long-term	0,686 mg/kg bw/day (ECETOC TRA worker v3)	0,069
combined routes	systemic	long-term		0,078

**13.3.8. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Equipment cleaning and maintenance (IFRA F-7) (CS7)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	3,304 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,055
dermal	systemic	long-term	1,371 mg/kg bw/day (ECETOC TRA worker v3)	0,137
combined routes	systemic	long-term		0,192

**13.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES**

**Environment**

If a DU has OC/RMMs outside specifications in the ES, then the DU can evaluate whether he works inside the boundaries set by the ES through scaling in EUSES.

The main driving parameters are :

- local amount used (tonnage)
- release factor prior to on-site treatment
- on-site wastewater treatment presence and efficiency
- dilution factor

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

**Human Health**

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least

**ES 14: Widespread use by professional workers****14.1. Title section**

<b>Exposure Scenario name</b>	: Widespread use by professional workers, Professional uses, end-products
<b>Structured Short Title</b>	: Widespread use by professional workers

Environment		
<b>CS 1</b>	<b>Professional end-use of washing and cleaning products (IFRA GES 4)</b>	ERC8d, Professional end-use of washing and cleaning products (IFRA GES 4)
Worker		
<b>CS 2</b>	<b>The use as fragrance solvent in various products (detergents, laundry products, dishwash products, kitchen cleaners, medical devices)</b>	PROC8a,
<b>CS 3</b>	<b>Use of detergent and conditioners</b>	PROC8a,
<b>CS 4</b>	<b>The use as fragrance solvent in various products (general purpose cleaners, laundry products, floor and carpet cleaners)</b>	PROC8a,
<b>CS 5</b>	<b>The use as fragrance solvent in various products (laundry products, dishwash products, kitchen and drain cleaners)</b>	PROC8a,
<b>CS 6</b>	<b>Prespotter/stain remover</b>	PROC11,
<b>CS 7</b>	<b>Dishwash products (Use phase)</b>	PROC10,
<b>CS 8</b>	<b>Dishwash and rinse products (Preparatory phase)</b>	PROC8b,
<b>CS 9</b>	<b>Dishwash and rinse products (Use phase)</b>	PROC2,
<b>CS 10</b>	<b>The use as fragrance solvent in various products</b>	PROC10,
<b>CS 11</b>	<b>General purpose cleaner, spray and wipe (Use phase)</b>	PROC11,
<b>CS 12</b>	<b>Kitchen cleaners (Use phase)</b>	PROC10,
<b>CS 13</b>	<b>The use as fragrance solvent in various products</b>	PROC11,
<b>CS 14</b>	<b>Descaling agent</b>	PROC13,
<b>CS 15</b>	<b>Oven, grill cleaner</b>	PROC10,
<b>CS 16</b>	<b>Floor cleaners (Preparatory phase)</b>	PROC8a,
<b>CS 17</b>	<b>Floor cleaners, spray and wipe (Use phase)</b>	PROC11,
<b>CS 18</b>	<b>The use as fragrance solvent in various products</b>	PROC8a,
<b>CS 19</b>	<b>Car wash and dewaxing products (Use phase)</b>	PROC4,
<b>CS 20</b>	<b>Spray and rinse process (Use phase)</b>	PROC11,
<b>CS 21</b>	<b>Boat cleaners (Use process)</b>	PROC10,
<b>CS 22</b>	<b>Surface cleaner: high and medium pressure (Preparatory phase)</b>	PROC8a,

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CS 23	Surface cleaner: high and medium pressure (Use phase)	PROC11,
CS 24	Medical devices (Preparatory process)	PROC8a,
CS 25	Medical devices (Use phase)	PROC4,
CS 26	Medical devices: dipping process (Preparatory process)	PROC8a,
CS 27	Medical devices: dipping process (Use phase)	PROC13,
CS 28	The use as fragrance solvent in various products	PROC11,

**14.2. Conditions of use affecting exposure**

**14.2.1. Control of environmental exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8d) / Professional end-use of washing and cleaning products (IFRA GES 4)**

**14.2.2. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / The use as fragrance solvent in various products (detergents, laundry products, dishwasher products, kitchen cleaners, medical devices) ()**

<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 1 %.	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity 15 min/day
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands. Avoid splashing. Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Basic.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants) Use suitable eye protection.	
Wear suitable gloves tested to EN374. Dermal - minimum efficiency of $\geq 80$ %	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

**14.2.3. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Use of detergent and conditioners ()**

<b>Product (article) characteristics</b>
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Covers percentage substance in the product up to 1 %.	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands. Avoid splashing. Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Basic.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants) Use suitable eye protection.	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

**14.2.4. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / The use as fragrance solvent in various products (general purpose cleaners, laundry products, floor and carpet cleaners) ()**

<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 1 %.	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity 1 h/day
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands. Avoid splashing. Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Basic.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants) Use suitable eye protection.	
Wear suitable gloves tested to EN374. Dermal - minimum efficiency of $\geq 80$ %	
For further specification, refer to section 8 of the SDS.	

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**Other conditions affecting workers exposure**

Indoor or outdoor use	:	Indoor use
Temperature	:	Assumes process temperature up to 40 °C

**14.2.5. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / The use as fragrance solvent in various products (laundry products, dishwash products, kitchen and drain cleaners) ()****Product (article) characteristics**

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

**Amount used (or contained in articles), frequency and duration of use/exposure**

Use frequency : Duration of the activity 15 min/day

**Technical and organisational conditions and measures**

Avoid direct eye contact with product, also via contamination on hands.  
 Avoid splashing.  
 Provide a basic standard of general ventilation (1 to 3 air changes per hour).  
 Occupational Health and Safety Management System: Basic.

**Conditions and measures related to personal protection, hygiene and health evaluation**

General measures (eye irritants)  
 Use suitable eye protection.

For further specification, refer to section 8 of the SDS.

**Other conditions affecting workers exposure**

Indoor or outdoor use	:	Indoor use
Temperature	:	Assumes process temperature up to 40 °C

**14.2.6. Control of worker exposure: Non-industrial spraying (PROC11) / Prespotter/stain remover ()****Product (article) characteristics**

Covers concentrations up to 15 %

Physical form of product : Liquid

**Amount used (or contained in articles), frequency and duration of use/exposure**

Use frequency : Duration of the activity 1 h/day

Very low application rate (&lt; 0.03 l/minute)

**Technical and organisational conditions and measures**

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Avoid direct eye contact with product, also via contamination on hands.  
 Avoid splashing.  
 Provide a basic standard of general ventilation (1 to 3 air changes per hour).  
 Occupational Health and Safety Management System: Basic.

**Conditions and measures related to personal protection, hygiene and health evaluation**

General measures (eye irritants)

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.  
 Dermal - minimum efficiency of  $\geq 90\%$

For further specification, refer to section 8 of the SDS.

**Other conditions affecting workers exposure**

Indoor or outdoor use : Indoor use

Room size : Any size workroom

Temperature : Assumes process temperature up to 25 °C

Distance from the worker to the emission source < 1 m

**14.2.7. Control of worker exposure: Roller application or brushing (PROC10) / Dishwash products (Use phase)**  
( )**Product (article) characteristics**

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

**Amount used (or contained in articles), frequency and duration of use/exposure**

Duration : Covers daily exposures up to 8 hours

**Technical and organisational conditions and measures**

Avoid direct eye contact with product, also via contamination on hands.  
 Avoid splashing.  
 Provide a basic standard of general ventilation (1 to 3 air changes per hour).  
 Occupational Health and Safety Management System: Basic.

**Conditions and measures related to personal protection, hygiene and health evaluation**

General measures (eye irritants)  
 Use suitable eye protection.

Wear suitable gloves tested to EN374.  
 Dermal - minimum efficiency of  $\geq 80\%$

For further specification, refer to section 8 of the SDS.

**Other conditions affecting workers exposure**

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

**14.2.8. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Dishwash and rinse products (Preparatory phase) ()**

<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 1 %.	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity 15 min/day
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands. Avoid splashing. Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Basic.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants) Use suitable eye protection.	
Wear suitable gloves tested to EN374. Dermal - minimum efficiency of $\geq 80$ %	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

**14.2.9. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Dishwash and rinse products (Use phase) ()**

<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 1 %.	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity 15 min/day
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands. Avoid splashing. Closed continuous process with occasional controlled exposure Provide a basic standard of general ventilation (1 to 3 air changes per hour).	

Occupational Health and Safety Management System: Basic.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants)	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

#### 14.2.10. Control of worker exposure: Roller application or brushing (PROC10) / The use as fragrance solvent in various products ()

<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 1 %.	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands. Avoid splashing. Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Basic.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants) Use suitable eye protection.	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

#### 14.2.11. Control of worker exposure: Non-industrial spraying (PROC11) / General purpose cleaner, spray and wipe (Use phase) ()

<b>Product (article) characteristics</b>	
Covers concentrations up to 15 %	
Physical form of product	: Liquid

<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity 15 min/day
Low application rate (0.03 - 0.3 l/minute)	
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands. Avoid splashing. Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Basic.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants)	
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of $\geq 90\%$	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Room size	: Any size workroom
Temperature	: Assumes process temperature up to 25 °C
Distance from the worker to the emission source < 1 m	

#### 14.2.12. Control of worker exposure: Roller application or brushing (PROC10) / Kitchen cleaners (Use phase) ( )

<b>Product (article) characteristics</b>	
Covers concentrations up to 15 %	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Scale of application for spreading of liquid to surface	: > 3 m <sup>2</sup> /h
Use frequency	: Duration of the activity 4 h/day
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands. Avoid splashing. Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Basic.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants)	

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Use suitable eye protection.	
Wear suitable gloves tested to EN374. Dermal - minimum efficiency of $\geq 80\%$	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Room size	: Any size workroom
Temperature	: Assumes process temperature up to 25 °C
Distance from the worker to the emission source < 1 m	

#### 14.2.13. Control of worker exposure: Non-industrial spraying (PROC11) / The use as fragrance solvent in various products ()

<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 1 %.	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity 15 min/day
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands. Avoid splashing. Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Basic.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants)	
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of $\geq 80\%$	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

#### 14.2.14. Control of worker exposure: Treatment of articles by dipping and pouring (PROC13) / Descaling agent ()

<b>Product (article) characteristics</b>	
Covers concentrations up to 15 %	

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Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity 1 h/day
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands. Avoid splashing. Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Basic.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants) Use suitable eye protection.	
Wear suitable gloves tested to EN374. Dermal - minimum efficiency of $\geq 80\%$	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

**14.2.15. Control of worker exposure: Roller application or brushing (PROC10) / Oven, grill cleaner ( )**

<b>Product (article) characteristics</b>	
Covers concentrations up to 15 %	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity 1 h/day
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands. Avoid splashing. Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Basic.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants) Use suitable eye protection.	
Wear suitable gloves tested to EN374. Dermal - minimum efficiency of $\geq 80\%$	
For further specification, refer to section 8 of the SDS.	

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Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

#### 14.2.16. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Floor cleaners (Preparatory phase) ()

Product (article) characteristics	
Covers concentrations up to 15 %	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Use frequency	: Duration of the activity 1 h/day
Technical and organisational conditions and measures	
Avoid direct eye contact with product, also via contamination on hands. Avoid splashing. Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Basic.	
Conditions and measures related to personal protection, hygiene and health evaluation	
General measures (eye irritants) Use suitable eye protection.	
Wear suitable gloves tested to EN374. Dermal - minimum efficiency of $\geq 80$ %	
For further specification, refer to section 8 of the SDS.	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

#### 14.2.17. Control of worker exposure: Non-industrial spraying (PROC11) / Floor cleaners, spray and wipe (Use phase) ()

Product (article) characteristics	
Covers concentrations up to 15 %	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Use frequency	: Duration of the activity 1 h/day
Low application rate (0.03 - 0.3 l/minute)	

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**Technical and organisational conditions and measures**

Avoid direct eye contact with product, also via contamination on hands.  
 Avoid splashing.  
 Provide a basic standard of general ventilation (1 to 3 air changes per hour).  
 Occupational Health and Safety Management System: Basic.  
 Segregation of the source: No segregation

**Conditions and measures related to personal protection, hygiene and health evaluation**

General measures (eye irritants)

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.  
 Dermal - minimum efficiency of  $\geq 90\%$

For further specification, refer to section 8 of the SDS.

**Other conditions affecting workers exposure**

Indoor or outdoor use : Indoor use

Room size : Any size workroom

Temperature : Assumes process temperature up to 25 °C

**14.2.18. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / The use as fragrance solvent in various products ()****Product (article) characteristics**

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

**Amount used (or contained in articles), frequency and duration of use/exposure**

Use frequency : Duration of the activity 1 h/day

**Technical and organisational conditions and measures**

Avoid direct eye contact with product, also via contamination on hands.  
 Avoid splashing.  
 Occupational Health and Safety Management System: Basic.

**Conditions and measures related to personal protection, hygiene and health evaluation**

General measures (eye irritants)  
 Use suitable eye protection.

Wear suitable gloves tested to EN374.  
 Dermal - minimum efficiency of  $\geq 80\%$

For further specification, refer to section 8 of the SDS.

**Other conditions affecting workers exposure**

Indoor or outdoor use : Outdoor use

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Temperature	: Assumes process temperature up to 40 °C
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**14.2.19. Control of worker exposure: Chemical production where opportunity for exposure arises (PROC4) / Car wash and dewaxing products (Use phase) ()**

Product (article) characteristics	
Covers concentrations up to 15 %	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Covers daily exposures up to 8 hours
Technical and organisational conditions and measures	
Avoid direct eye contact with product, also via contamination on hands. Avoid splashing. Occupational Health and Safety Management System: Basic.	
Conditions and measures related to personal protection, hygiene and health evaluation	
General measures (eye irritants) Use suitable eye protection.	
Wear suitable gloves tested to EN374. Dermal - minimum efficiency of $\geq 80$ %	
For further specification, refer to section 8 of the SDS.	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Outdoor use
Temperature	: Assumes process temperature up to 40 °C

**14.2.20. Control of worker exposure: Non-industrial spraying (PROC11) / Spray and rinse process (Use phase) ()**

Product (article) characteristics	
Covers concentrations up to 15 %	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Use frequency	: Duration of the activity 1 h/day
Moderate application rate (0.3 - 3 l/minute)	
Technical and organisational conditions and measures	
Avoid direct eye contact with product, also via contamination on hands. Avoid splashing.	

Occupational Health and Safety Management System: Basic. No containment	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants)	
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of $\geq 90\%$	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Outdoor use
Temperature	: Assumes process temperature up to 25 °C
Distance from the worker to the emission source < 1 m	

#### 14.2.21. Control of worker exposure: Roller application or brushing (PROC10) / Boat cleaners (Use process) ()

<b>Product (article) characteristics</b>	
Covers concentrations up to 15 %	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Scale of application for spreading of liquid to surface	: > 3 m <sup>2</sup> /h
Duration	: Covers daily exposures up to 8 hours
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands. Avoid splashing. Occupational Health and Safety Management System: Basic.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants) Use suitable eye protection.	
Wear suitable gloves tested to EN374. Dermal - minimum efficiency of $\geq 80\%$	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Outdoor use
Temperature	: Assumes process temperature up to 25 °C
Distance from the worker to the emission source < 1 m	

**14.2.22. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Surface cleaner: high and medium pressure (Preparatory phase) ()**

<b>Product (article) characteristics</b>	
Covers concentrations up to 15 %	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity 0,25 min/day
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands. Avoid splashing. Occupational Health and Safety Management System: Basic.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants) Use suitable eye protection.	
Wear suitable gloves tested to EN374. Dermal - minimum efficiency of $\geq 80$ %	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Outdoor use
Temperature	: Assumes process temperature up to 40 °C

**14.2.23. Control of worker exposure: Non-industrial spraying (PROC11) / Surface cleaner: high and medium pressure (Use phase) ()**

<b>Product (article) characteristics</b>	
Covers concentrations up to 15 %	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Duration	: Covers daily exposures up to 8 hours
Moderate application rate (0.3 - 3 l/minute)	
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands. Avoid splashing. Occupational Health and Safety Management System: Basic.	

Conditions and measures related to personal protection, hygiene and health evaluation	
General measures (eye irritants)	
Wear suitable gloves tested to EN374. Dermal - minimum efficiency of $\geq 80\%$	
Wear suitable respiratory protection. Dermal - minimum efficiency of $\geq 90\%$	
For further specification, refer to section 8 of the SDS.	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Outdoor use
Temperature	: Assumes process temperature up to 40 °C

#### 14.2.24. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Medical devices (Preparatory process) ()

Product (article) characteristics	
Covers percentage substance in the product up to 1 %.	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Use frequency	: Duration of the activity 1 h/day
Technical and organisational conditions and measures	
Avoid direct eye contact with product, also via contamination on hands. Avoid splashing. Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Basic.	
Local exhaust ventilation Dermal - minimum efficiency of 80 % Inhalation - minimum efficiency of 80 %	
Conditions and measures related to personal protection, hygiene and health evaluation	
General measures (eye irritants) Use suitable eye protection.	
Wear suitable gloves tested to EN374. Dermal - minimum efficiency of $\geq 80\%$	
For further specification, refer to section 8 of the SDS.	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

**14.2.25. Control of worker exposure: Chemical production where opportunity for exposure arises (PROC4) / Medical devices (Use phase) ()**

<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 1 %.	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity 4 h/day
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands. Avoid splashing. Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Basic.	
Local exhaust ventilation Dermal - minimum efficiency of 80 % Inhalation - minimum efficiency of 80 %	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants) Use suitable eye protection.	
Wear suitable gloves tested to EN374. Dermal - minimum efficiency of >= 80 %	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

**14.2.26. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Medical devices: dipping process (Preparatory process) ()**

<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 1 %.	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity 15 min/day
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands. Avoid splashing.	

Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Basic.	
Local exhaust ventilation Dermal - minimum efficiency of 80 % Inhalation - minimum efficiency of 80 %	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants) Use suitable eye protection.	
Wear suitable gloves tested to EN374. Dermal - minimum efficiency of >= 80 %	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

**14.2.27. Control of worker exposure: Treatment of articles by dipping and pouring (PROC13) / Medical devices: dipping process (Use phase) ()**

<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 1 %.	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity 4 h/day
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands. Avoid splashing. Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Basic.	
Local exhaust ventilation Dermal - minimum efficiency of 80 % Inhalation - minimum efficiency of 80 %	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants) Use suitable eye protection.	
Wear suitable gloves tested to EN374. Dermal - minimum efficiency of >= 80 %	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	

Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

#### 14.2.28. Control of worker exposure: Non-industrial spraying (PROC11) / The use as fragrance solvent in various products ()

<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 1 %.	
Physical form of product	: Liquid
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity 15 min/day
<b>Technical and organisational conditions and measures</b>	
Avoid direct eye contact with product, also via contamination on hands. Avoid splashing. Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Basic.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
General measures (eye irritants)	
Wear suitable gloves tested to EN374. Dermal - minimum efficiency of $\geq 80$ %	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

#### 14.3. Exposure estimation and reference to its source

##### 14.3.1. Environmental release and exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8d) / Professional end-use of washing and cleaning products (IFRA GES 4)

<b>Additional information on exposure estimation</b>
As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

##### 14.3.2. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / The use as fragrance solvent in various products (detergents, laundry products, dishwash products, kitchen cleaners, medical devices) ()

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	1,377 mg/m <sup>3</sup>	0,023

			(ECETOC TRA worker v3)	
dermal	systemic	long-term	0,274 mg/kg bw/day (ECETOC TRA worker v3)	0,027
combined routes	systemic	long-term		0,05

**14.3.3. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Use of detergent and conditioners ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	13,76 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,229
dermal	systemic	long-term	1,371 mg/kg bw/day (ECETOC TRA worker v3)	0,137
combined routes	systemic	long-term		0,367

**14.3.4. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / The use as fragrance solvent in various products (general purpose cleaners, laundry products, floor and carpet cleaners) ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	2,753 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,046
dermal	systemic	long-term	0,274 mg/kg bw/day (ECETOC TRA worker v3)	0,027
combined routes	systemic	long-term		0,073

**14.3.5. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / The use as fragrance solvent in various products (laundry products, dishwash products, kitchen and drain cleaners) ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	1,377 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,023
dermal	systemic	long-term	1,371 mg/kg bw/day (ECETOC TRA worker v3)	0,137
combined routes	systemic	long-term		0,16

**14.3.6. Worker exposure: Non-industrial spraying (PROC11) / Prespotter/stain remover ()**

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Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	4,3 mg/m <sup>3</sup> (ART v1.5)	0,072
dermal	systemic	long-term	6,428 mg/kg bw/day (ECETOC TRA worker v3)	0,643
combined routes	systemic	long-term		0,715

**14.3.7. Worker exposure: Roller application or brushing (PROC10) / Dishwash products (Use phase) ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	13,76 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,229
dermal	systemic	long-term	0,549 mg/kg bw/day (ECETOC TRA worker v3)	0,055
combined routes	systemic	long-term		0,284

**14.3.8. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Dishwash and rinse products (Preparatory phase) ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,551 mg/m <sup>3</sup> (ECETOC TRA worker v3)	< 0,01
dermal	systemic	long-term	0,274 mg/kg bw/day (ECETOC TRA worker v3)	0,027
combined routes	systemic	long-term		0,037

**14.3.9. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Dishwash and rinse products (Use phase) ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,275 mg/m <sup>3</sup> (ECETOC TRA worker v3)	< 0,01
dermal	systemic	long-term	0,137 mg/kg bw/day (ECETOC TRA worker v3)	0,014
combined routes	systemic	long-term		0,018

**14.3.10. Worker exposure: Roller application or brushing (PROC10) / The use as fragrance solvent in various products ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	13,76 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,229
dermal	systemic	long-term	2,743 mg/kg bw/day (ECETOC TRA worker v3)	0,274
combined routes	systemic	long-term		0,504

**14.3.11. Worker exposure: Non-industrial spraying (PROC11) / General purpose cleaner, spray and wipe (Use phase) ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	3,2 mg/m <sup>3</sup> (ART v1.5)	0,053
dermal	systemic	long-term	6,428 mg/kg bw/day (ECETOC TRA worker v3)	0,643
combined routes	systemic	long-term		0,696

**14.3.12. Worker exposure: Roller application or brushing (PROC10) / Kitchen cleaners (Use phase) ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	17 mg/m <sup>3</sup> (ART v1.5)	0,283
dermal	systemic	long-term	3,292 mg/kg bw/day (ECETOC TRA worker v3)	0,329
combined routes	systemic	long-term		0,612

**14.3.13. Worker exposure: Non-industrial spraying (PROC11) / The use as fragrance solvent in various products ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	5,507 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,092
dermal	systemic	long-term	2,143 mg/kg bw/day (ECETOC TRA worker v3)	0,214
combined routes	systemic	long-term		0,306

**14.3.14. Worker exposure: Treatment of articles by dipping and pouring (PROC13) / Descaling agent ( )**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	6,608 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,11
dermal	systemic	long-term	1,645 mg/kg bw/day (ECETOC TRA worker v3)	0,165
combined routes	systemic	long-term		0,275

**14.3.15. Worker exposure: Roller application or brushing (PROC10) / Oven, grill cleaner ( )**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	16,52 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,275
dermal	systemic	long-term	3,292 mg/kg bw/day (ECETOC TRA worker v3)	0,329
combined routes	systemic	long-term		0,604

**14.3.16. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Floor cleaners (Preparatory phase) ( )**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	16,52 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,275
dermal	systemic	long-term	1,645 mg/kg bw/day (ECETOC TRA worker v3)	0,165
combined routes	systemic	long-term		0,44

**14.3.17. Worker exposure: Non-industrial spraying (PROC11) / Floor cleaners, spray and wipe (Use phase) ( )**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	1,1 mg/m <sup>3</sup> (ART v1.5)	0,018
dermal	systemic	long-term	6,428 mg/kg bw/day (ECETOC TRA worker v3)	0,643
combined routes	systemic	long-term		0,661

**14.3.18. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / The use as fragrance solvent in various products ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	1,927 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,032
dermal	systemic	long-term	0,274 mg/kg bw/day (ECETOC TRA worker v3)	0,027
combined routes	systemic	long-term		0,06

**14.3.19. Worker exposure: Chemical production where opportunity for exposure arises (PROC4) / Car wash and dewaxing products (Use phase) ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	23,12 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,385
dermal	systemic	long-term	0,823 mg/kg bw/day (ECETOC TRA worker v3)	0,082
combined routes	systemic	long-term		0,468

**14.3.20. Worker exposure: Non-industrial spraying (PROC11) / Spray and rinse process (Use phase) ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	4,9 mg/m <sup>3</sup> (ART v1.5)	0,082
dermal	systemic	long-term	6,428 mg/kg bw/day (ECETOC TRA worker v3)	0,643
combined routes	systemic	long-term		0,725

**14.3.21. Worker exposure: Roller application or brushing (PROC10) / Boat cleaners (Use process) ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	3,9 mg/m <sup>3</sup> (ART v1.5)	0,065
dermal	systemic	long-term	3,292 mg/kg bw/day (ECETOC TRA worker v3)	0,329
combined routes	systemic	long-term		0,394

**14.3.22. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Surface cleaner: high and medium pressure (Preparatory phase) ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	5,782 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,096
dermal	systemic	long-term	1,645 mg/kg bw/day (ECETOC TRA worker v3)	0,165
combined routes	systemic	long-term		0,261

**14.3.23. Worker exposure: Non-industrial spraying (PROC11) / Surface cleaner: high and medium pressure (Use phase) ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	23,12 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,385
dermal	systemic	long-term	3,275 mg/kg bw/day (RISKOFDERM v2.1)	0,328
combined routes	systemic	long-term		0,713

**14.3.24. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Medical devices (Preparatory process) ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,551 mg/m <sup>3</sup> (ECETOC TRA worker v3)	< 0,01
dermal	systemic	long-term	0,055 mg/kg bw/day (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		0,015

**14.3.25. Worker exposure: Chemical production where opportunity for exposure arises (PROC4) / Medical devices (Use phase) ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,661 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,011
dermal	systemic	long-term	0,027 mg/kg bw/day (ECETOC	< 0,01

			TRA worker v3)	
combined routes	systemic	long-term		0,014

**14.3.26. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Medical devices: dipping process (Preparatory process) ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,275 mg/m <sup>3</sup> (ECETOC TRA worker v3)	< 0,01
dermal	systemic	long-term	0,055 mg/kg bw/day (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		0,01

**14.3.27. Worker exposure: Treatment of articles by dipping and pouring (PROC13) / Medical devices: dipping process (Use phase) ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,661 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,011
dermal	systemic	long-term	0,055 mg/kg bw/day (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		0,016

**14.3.28. Worker exposure: Non-industrial spraying (PROC11) / The use as fragrance solvent in various products ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	5,507 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,092
dermal	systemic	long-term	2,143 mg/kg bw/day (ECETOC TRA worker v3)	0,214
combined routes	systemic	long-term		0,306

**14.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES**

Environment

If a DU has OC/RMMs outside specifications in the ES, then the DU can evaluate whether he works inside the boundaries set by the ES through scaling in EUSES.

The main driving parameters are :

- local amount used (tonnage)
- release factor prior to on-site treatment

- on-site wastewater treatment presence and efficiency
- dilution factor

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

#### Human Health

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least

**ES 15: Consumer use****15.1. Title section**

<b>Exposure Scenario name</b>	: Consumer use, End use of cosmetic products
<b>Structured Short Title</b>	: Consumer use

Environment		
<b>CS 1</b>	<b>End use of cosmetic products</b>	ERC8a, End use of cosmetic products
Consumer		
<b>CS 2</b>	<b>End use of cosmetic products</b>	PC39,
<b>CS 3</b>	<b>End use of cosmetic products</b>	PC28,

**15.2. Conditions of use affecting exposure**

**15.2.1. Control of environmental exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a) / End use of cosmetic products**

**15.2.2. Control of consumer exposure: Cosmetics, personal care products (PC39) / End use of cosmetic products ()**

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: No spray
Amount used (or contained in articles), frequency and duration of use/exposure	
Exposure frequency	: 1 events/day
Use frequency	: Frequent
Other conditions affecting consumers exposure	
Indoor or outdoor use	: Indoor use

**15.2.3. Control of consumer exposure: Perfumes, fragrances (PC28) / End use of cosmetic products ()**

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Amount used (or contained in articles), frequency and duration of use/exposure	
Exposure frequency	: 1 events/day
Use frequency	: Frequent

**Other conditions affecting consumers exposure**

Indoor or outdoor use : Indoor use

**15.3. Exposure estimation and reference to its source****15.3.1. Environmental release and exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a) / End use of cosmetic products****Additional information on exposure estimation**

As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

**15.3.2. Consumer exposure: Cosmetics, personal care products (PC39) / End use of cosmetic products ()****Additional information on exposure estimation**

In accordance to the Article 14 (5b) of the REACH Regulation (EC) No 1907/2006, exposure estimation and risk characterisation for human health does not need to be performed for end uses in cosmetic products within the scope of Directive 76/768/EEC.

**15.3.3. Consumer exposure: Perfumes, fragrances (PC28) / End use of cosmetic products ()****Additional information on exposure estimation**

In accordance to the Article 14 (5b) of the REACH Regulation (EC) No 1907/2006, exposure estimation and risk characterisation for human health does not need to be performed for end uses in cosmetic products within the scope of Directive 76/768/EEC.

**15.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES Environment**

If a DU has OC/RMMs outside specifications in the ES, then the DU can evaluate whether he works inside the boundaries set by the ES through scaling in EUSES.

The main driving parameters are :

- local amount used (tonnage)
- release factor prior to on-site treatment
- on-site wastewater treatment presence and efficiency
- dilution factor

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

**Human Health**

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least

**ES 16: Formulation or re-packing****16.1. Title section**

<b>Exposure Scenario name</b>	: Formulation or re-packing
<b>Structured Short Title</b>	: Formulation or re-packing

Environment		
<b>CS 1</b>	<b>Formulation of fragrance compounds</b>	ERC2, IFRA SPERC 2.1a.v1
<b>CS 2</b>	<b>Formulation of fragrance compounds at small sites</b>	ERC2, IFRA SPERC 2.1b.v1
Worker		
<b>CS 3</b>	<b>Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities</b>	PROC3
<b>CS 4</b>	<b>Storage</b>	PROC1
<b>CS 5</b>	<b>Mixing operations (closed systems)</b>	PROC3
<b>CS 6</b>	<b>Mixing operations (open systems)</b>	PROC5
<b>CS 7</b>	<b>Laboratory use: QC laboratory use</b>	PROC15
<b>CS 8</b>	<b>Transfer of substance or mixture into small containers (dedicated filling line, including weighing)</b>	PROC9
<b>CS 9</b>	<b>Equipment cleaning and maintenance</b>	PROC8a, PROC28

**16.2. Conditions of use affecting exposure**

**16.2.1. Control of environmental exposure: Formulation into mixture (ERC2) / IFRA SPERC 2.1a.v1**

**16.2.2. Control of environmental exposure: Formulation into mixture (ERC2) / IFRA – Formulation of fragrance compounds at small sites (IFRA SPERC 2.1b.v1)**

**16.2.3. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)**

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid, including paste/slurry/suspension
Amount used (or contained in articles), frequency and duration of use/exposure	
Use frequency	: Duration of the activity 1 h/day
Technical and organisational conditions and measures	

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Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Advanced.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
Use suitable eye protection. General measures (eye irritants)	
Use of appropriate dermal protection Dermal - minimum efficiency of $\geq 80\%$	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 25 °C

#### 16.2.4. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid, including paste/slurry/suspension
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity 1 h/day
<b>Technical and organisational conditions and measures</b>	
Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Advanced.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
No specific measures identified.	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 25 °C

#### 16.2.5. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid, including paste/slurry/suspension

Amount used (or contained in articles), frequency and duration of use/exposure	
Use frequency	: Duration of the activity 4 h/day
Technical and organisational conditions and measures	
Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Advanced.	
Conditions and measures related to personal protection, hygiene and health evaluation	
Use suitable eye protection. General measures (eye irritants)	
For further specification, refer to section 8 of the SDS.	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 25 °C

#### 16.2.6. Control of worker exposure: Mixing or blending in batch processes (PROC5)

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid, including paste/slurry/suspension
Amount used (or contained in articles), frequency and duration of use/exposure	
Use frequency	: Duration of the activity 4 h/day
Technical and organisational conditions and measures	
Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Advanced.	
Conditions and measures related to personal protection, hygiene and health evaluation	
Use suitable eye protection. General measures (eye irritants)	
Use of appropriate dermal protection Dermal - minimum efficiency of $\geq 80$ %	
For further specification, refer to section 8 of the SDS.	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 25 °C

#### 16.2.7. Control of worker exposure: Use as laboratory reagent (PROC15)

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<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Liquid, including paste/slurry/suspension
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity 0,25 h/day
<b>Technical and organisational conditions and measures</b>	
Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Advanced. Local exhaust ventilation	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
Use suitable eye protection. General measures (eye irritants)	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 25 °C

#### 16.2.8. Control of worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)

<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 25 %.	
Physical form of product	: Liquid, including paste/slurry/suspension
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity 1 h/day
<b>Technical and organisational conditions and measures</b>	
Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Advanced.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
Use suitable eye protection. General measures (eye irritants)	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	

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Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 25 °C

### 16.2.9. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Manual maintenance (cleaning and repair) of machinery (PROC28)

<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 25 %.	
Physical form of product	: Liquid, including paste/slurry/suspension
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity 4 h/day
<b>Technical and organisational conditions and measures</b>	
Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Advanced.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
Use suitable eye protection. General measures (eye irritants)	
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of $\geq 90$ %	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 25 °C

### 16.3. Exposure estimation and reference to its source

#### 16.3.1. Environmental release and exposure: Formulation into mixture (ERC2) / IFRA SPERC 2.1a.v1

<b>Additional information on exposure estimation</b>
As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

#### 16.3.2. Environmental release and exposure: Formulation into mixture (ERC2) / IFRA – Formulation of fragrance compounds at small sites (IFRA SPERC 2.1b.v1)

<b>Additional information on exposure estimation</b>
As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

**16.3.3. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	5,507 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,092
dermal	systemic	long-term	2,742 mg/kg bw/day (ECETOC TRA worker v3)	0,274
combined routes	systemic	long-term		0,366

**16.3.4. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,001 mg/m <sup>3</sup> (ECETOC TRA worker v3)	< 0,01
dermal	systemic	long-term	0,0034 mg/kg bw/day (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		< 0,01

**16.3.5. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	9,912 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,165
dermal	systemic	long-term	0,69 mg/kg bw/day (ECETOC TRA worker v3)	0,069
combined routes	systemic	long-term		0,234

**16.3.6. Worker exposure: Mixing or blending in batch processes (PROC5)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	16,52 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,275
dermal	systemic	long-term	2,742 mg/kg bw/day (ECETOC TRA worker v3)	0,274

combined routes	systemic	long-term		0,55
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**16.3.7. Worker exposure: Use as laboratory reagent (PROC15)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	2,753 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,046
dermal	systemic	long-term	0,34 mg/kg bw/day (ECETOC TRA worker v3)	0,034
combined routes	systemic	long-term		0,08

**16.3.8. Worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	3,304 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,055
dermal	systemic	long-term	4,116 mg/kg bw/day (ECETOC TRA worker v3)	0,412
combined routes	systemic	long-term		0,467

**16.3.9. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Manual maintenance (cleaning and repair) of machinery (PROC28)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	19,82 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,33
dermal	systemic	long-term	0,823 mg/kg bw/day (ECETOC TRA worker v3)	0,082
combined routes	systemic	long-term		0,413

**16.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES Environment**

If a DU has OC/RMMs outside specifications in the ES, then the DU can evaluate whether he works inside the boundaries set by the ES through scaling in EUSES.

The main driving parameters are :

- local amount used (tonnage)
- release factor prior to on-site treatment
- on-site wastewater treatment presence and efficiency
- dilution factor

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

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Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

**Human Health**

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least

**ES 17: Formulation or re-packing****17.1. Title section**

<b>Exposure Scenario name</b>	: Formulation of fragranced end-products (GES 2), Formulation or re-packing
<b>Structured Short Title</b>	: Formulation or re-packing

Environment		
CS 1	AISE Granular & Low Viscosity Liquids + CE/A.I.S.E. solid cosmetic & home care products - large scale	ERC3, AISE 2.1a.v3
CS 2	AISE Granular & Low Viscosity Liquids - CE/A.I.S.E. solid cosmetic & home care products medium scale	ERC3, AISE 2.1b.v3
CS 3	AISE Granular & Low Viscosity Liquids CE/A.I.S.E. solid cosmetic & home care products - small scale	ERC3, AISE 2.1c.v3
CS 4	AISE High Viscosity Liquids + CE Low Viscosity Liquids - large scale	ERC3, AISE 2.1j.v3
CS 5	AISE High Viscosity Liquids + CE Low Viscosity Liquids - medium scale	ERC3, AISE 2.1k.v3
CS 6	AISE High Viscosity Liquids + CE Low Viscosity Liquids - small scale	ERC3, AISE 2.1l.v3
CS 7	AISE & CE Fine Fragrances (cleaning with solvent) - all scales	ERC3, Cosmetics Europe SPERC 2.2.a.v3
CS 8	Cosmetics Europe - Other formulations - all scales	ERC3
Worker		
CS 9	Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities	PROC8b
CS 10	Laboratory use: QC laboratory use	PROC15
CS 11	Storage	PROC1
CS 12	Use in closed batch process (synthesis or formulation)	PROC3
CS 13	Mixing operations (open systems)	PROC5
CS 14	Equipment cleaning and maintenance	PROC8a, PROC28
CS 15	Transfer of substance or mixture into small containers (dedicated filling line, including weighing)	PROC9
CS 16	Production of preparations or articles by tableting, compression, extrusion, pelletisation	PROC14

**17.2. Conditions of use affecting exposure****17.2.1. Control of environmental exposure: Formulation in materials (ERC3) / AISE 2.1a.v3**

17.2.2. Control of environmental exposure: Formulation in materials (ERC3) / AISE 2.1b.v3

17.2.3. Control of environmental exposure: Formulation in materials (ERC3) / AISE 2.1c.v3

17.2.4. Control of environmental exposure: Formulation in materials (ERC3) / AISE 2.1j.v3

17.2.5. Control of environmental exposure: Formulation in materials (ERC3) / AISE 2.1k.v3

17.2.6. Control of environmental exposure: Formulation in materials (ERC3) / AISE 2.1l.v3

17.2.7. Control of environmental exposure: Formulation in materials (ERC3) / Cosmetics Europe SPERC 2.2.a.v3

17.2.8. Control of environmental exposure: Formulation in materials (ERC3)

17.2.9. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Product (article) characteristics	
Covers percentage substance in the product up to 25 %.	
Physical form of product	: Liquid, including paste/slurry/suspension
Amount used (or contained in articles), frequency and duration of use/exposure	
Use frequency	: Duration of the activity 1 h/day
Technical and organisational conditions and measures	
Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Advanced.	
Conditions and measures related to personal protection, hygiene and health evaluation	
General measures (eye irritants) Use suitable eye protection.	
Use of appropriate dermal protection Dermal - minimum efficiency of $\geq 80\%$	
For further specification, refer to section 8 of the SDS.	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 25 °C

17.2.10. Control of worker exposure: Use as laboratory reagent (PROC15)

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<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 25 %.	
Physical form of product	: Liquid, including paste/slurry/suspension
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity 0,25 h/day
<b>Technical and organisational conditions and measures</b>	
Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Advanced.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
Use suitable eye protection. General measures (eye irritants)	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 25 °C

**17.2.11. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)**

<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 25 %.	
Physical form of product	: Liquid, including paste/slurry/suspension
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity 1 h/day
<b>Technical and organisational conditions and measures</b>	
Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Advanced.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
No specific measures identified.	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 25 °C

**17.2.12. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)**

<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 25 %.	
Physical form of product	: Liquid, including paste/slurry/suspension
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity 4 h/day
<b>Technical and organisational conditions and measures</b>	
Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Advanced.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
Use suitable eye protection. General measures (eye irritants)	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 25 °C

**17.2.13. Control of worker exposure: Mixing or blending in batch processes (PROC5)**

<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 25 %.	
Physical form of product	: Liquid, including paste/slurry/suspension
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity 4 h/day
<b>Technical and organisational conditions and measures</b>	
Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Advanced.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
Use suitable eye protection. General measures (eye irritants)	
Use of appropriate dermal protection Dermal - minimum efficiency of $\geq 80$ %	

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For further specification, refer to section 8 of the SDS.

**Other conditions affecting workers exposure**

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 25 °C

**17.2.14. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Manual maintenance (cleaning and repair) of machinery (PROC28)****Product (article) characteristics**

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid, including paste/slurry/suspension

**Amount used (or contained in articles), frequency and duration of use/exposure**

Use frequency : Duration of the activity 4 h/day

**Technical and organisational conditions and measures**

Provide a basic standard of general ventilation (1 to 3 air changes per hour).  
Occupational Health and Safety Management System: Advanced.

**Conditions and measures related to personal protection, hygiene and health evaluation**

Use suitable eye protection.  
General measures (eye irritants)

For further specification, refer to section 8 of the SDS.

**Other conditions affecting workers exposure**

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 25 °C

**17.2.15. Control of worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)****Product (article) characteristics**

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid, including paste/slurry/suspension

**Amount used (or contained in articles), frequency and duration of use/exposure**

Use frequency : Duration of the activity 1 h/day

**Technical and organisational conditions and measures**

Provide a basic standard of general ventilation (1 to 3 air changes per hour).  
Occupational Health and Safety Management System: Advanced.

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**Conditions and measures related to personal protection, hygiene and health evaluation**

Use suitable eye protection.  
General measures (eye irritants)

For further specification, refer to section 8 of the SDS.

**Other conditions affecting workers exposure**

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 25 °C

**17.2.16. Control of worker exposure: Tableting, compression, extrusion, pelettisation, granulation (PROC14)****Product (article) characteristics**

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid, including paste/slurry/suspension

**Amount used (or contained in articles), frequency and duration of use/exposure**

Use frequency : Duration of the activity 8 h/day

**Technical and organisational conditions and measures**

Provide a basic standard of general ventilation (1 to 3 air changes per hour).  
Occupational Health and Safety Management System: Advanced.

**Conditions and measures related to personal protection, hygiene and health evaluation**

Use suitable eye protection.  
General measures (eye irritants)

For further specification, refer to section 8 of the SDS.

**Other conditions affecting workers exposure**

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 25 °C

**17.3. Exposure estimation and reference to its source****17.3.1. Environmental release and exposure: Formulation in materials (ERC3) / AISE 2.1a.v3****Additional information on exposure estimation**

As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

**17.3.2. Environmental release and exposure: Formulation in materials (ERC3) / AISE 2.1b.v3****Additional information on exposure estimation**

As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

### 17.3.3. Environmental release and exposure: Formulation in materials (ERC3) / AISE 2.1c.v3

#### Additional information on exposure estimation

As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

### 17.3.4. Environmental release and exposure: Formulation in materials (ERC3) / AISE 2.1j.v3

#### Additional information on exposure estimation

As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

### 17.3.5. Environmental release and exposure: Formulation in materials (ERC3) / AISE 2.1k.v3

#### Additional information on exposure estimation

As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

### 17.3.6. Environmental release and exposure: Formulation in materials (ERC3) / AISE 2.1l.v3

#### Additional information on exposure estimation

As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

### 17.3.7. Environmental release and exposure: Formulation in materials (ERC3) / Cosmetics Europe SPERC 2.2.a.v3

#### Additional information on exposure estimation

As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

### 17.3.8. Environmental release and exposure: Formulation in materials (ERC3)

#### Additional information on exposure estimation

As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

### 17.3.9. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	3,304 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,055
dermal	systemic	long-term	1,645 mg/kg	0,165

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			bw/day (ECETOC TRA worker v3)	
combined routes	systemic	long-term		0,22

**17.3.10. Worker exposure: Use as laboratory reagent (PROC15)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	1,652 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,028
dermal	systemic	long-term	0,204 mg/kg bw/day (ECETOC TRA worker v3)	0,02
combined routes	systemic	long-term		0,048

**17.3.11. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,00661 mg/m <sup>3</sup> (ECETOC TRA worker v3)	< 0,01
dermal	systemic	long-term	0,02 mg/kg bw/day (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		< 0,01

**17.3.12. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	5,947 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,099
dermal	systemic	long-term	0,414 mg/kg bw/day (ECETOC TRA worker v3)	0,041
combined routes	systemic	long-term		0,141

**17.3.13. Worker exposure: Mixing or blending in batch processes (PROC5)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	9,912 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,165

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dermal	systemic	long-term	1,645 mg/kg bw/day (ECETOC TRA worker v3)	0,165
combined routes	systemic	long-term		0,33

**17.3.14. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Manual maintenance (cleaning and repair) of machinery (PROC28)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	3,304 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,055
dermal	systemic	long-term	1,371 mg/kg bw/day (ECETOC TRA worker v3)	0,137
combined routes	systemic	long-term		0,192

**17.3.15. Worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,551 mg/m <sup>3</sup> (ECETOC TRA worker v3)	< 0,01
dermal	systemic	long-term	0,686 mg/kg bw/day (ECETOC TRA worker v3)	0,069
combined routes	systemic	long-term		0,078

**17.3.16. Worker exposure: Tableting, compression, extrusion, pelettisation, granulation (PROC14)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	2,753 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,046
dermal	systemic	long-term	0,034 mg/kg bw/day (ECETOC TRA worker v3)	0,034
combined routes	systemic	long-term		0,08

**17.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES**

Environment

If a DU has OC/RMMs outside specifications in the ES, then the DU can evaluate whether he works inside the boundaries set by the ES through scaling in EUSES.

The main driving parameters are :

- local amount used (tonnage)

- release factor prior to on-site treatment
- on-site wastewater treatment presence and efficiency
- dilution factor

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

#### Human Health

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least

**ES 18: Widespread use by professional workers****18.1. Title section**

<b>Exposure Scenario name</b>	: Professional end-use of washing, cleaning and disinfecting products
<b>Structured Short Title</b>	: Widespread use by professional workers

Environment		
<b>CS 1</b>	<b>Professional end-use of washing, cleaning and disinfecting products, Use at industrial site</b>	ERC8a
Worker		
<b>CS 2</b>	<b>Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions</b>	PROC1
<b>CS 3</b>	<b>Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition</b>	PROC3
<b>CS 4</b>	<b>Chemical production where opportunity for exposure arises</b>	PROC4
<b>CS 5</b>	<b>Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities</b>	PROC8a
<b>CS 6</b>	<b>Transfer of substance or mixture (charging/discharging) at dedicated facilities</b>	PROC8b
<b>CS 7</b>	<b>Roller application or brushing</b>	PROC10
<b>CS 8</b>	<b>Non industrial spraying</b>	PROC11
<b>CS 9</b>	<b>Treatment of articles by dipping and pouring</b>	PROC13
<b>CS 10</b>	<b>Manual activities involving hand contact</b>	PROC19

**18.2. Conditions of use affecting exposure**

**18.2.1. Control of environmental exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a)**

**18.2.2. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)**

Product (article) characteristics	
Covers percentage substance in the product up to 1 %.	
Physical form of product	: Liquid, including paste/slurry/suspension
Amount used (or contained in articles), frequency and duration of use/exposure	
Use frequency	: Duration of the activity 8 h/day
Technical and organisational conditions and measures	
Provide a basic standard of general ventilation (1 to 3 air changes per hour).	

Occupational Health and Safety Management System: Basic.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
No specific measures identified.	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 25 °C

**18.2.3. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)**

<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 1 %.	
Physical form of product	: Liquid, including paste/slurry/suspension
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity 8 h/day
<b>Technical and organisational conditions and measures</b>	
Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Basic.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
Use suitable eye protection. General measures (eye irritants)	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 25 °C

**18.2.4. Control of worker exposure: Chemical production where opportunity for exposure arises (PROC4)**

<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 1 %.	
Physical form of product	: Liquid, including paste/slurry/suspension
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity 8 h/day

**Technical and organisational conditions and measures**

Provide a basic standard of general ventilation (1 to 3 air changes per hour).  
Occupational Health and Safety Management System: Basic.

**Conditions and measures related to personal protection, hygiene and health evaluation**

Use suitable eye protection.  
General measures (eye irritants)

For further specification, refer to section 8 of the SDS.

**Other conditions affecting workers exposure**

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 25 °C

**18.2.5. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)****Product (article) characteristics**

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid, including paste/slurry/suspension

**Amount used (or contained in articles), frequency and duration of use/exposure**

Use frequency : Duration of the activity 8 h/day

**Technical and organisational conditions and measures**

Provide a basic standard of general ventilation (1 to 3 air changes per hour).  
Occupational Health and Safety Management System: Basic.

**Conditions and measures related to personal protection, hygiene and health evaluation**

Use suitable eye protection.  
General measures (eye irritants)

For further specification, refer to section 8 of the SDS.

**Other conditions affecting workers exposure**

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 25 °C

**18.2.6. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)****Product (article) characteristics**

Covers percentage substance in the product up to 1 %.

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Physical form of product	: Liquid, including paste/slurry/suspension
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity 1 h/day
<b>Technical and organisational conditions and measures</b>	
Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Basic.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
Use suitable eye protection. General measures (eye irritants)	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 25 °C

**18.2.7. Control of worker exposure: Roller application or brushing (PROC10)**

<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 1 %.	
Physical form of product	: Liquid, including paste/slurry/suspension
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity 8 h/day
<b>Technical and organisational conditions and measures</b>	
Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Basic.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
Use suitable eye protection. General measures (eye irritants)	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 25 °C

**18.2.8. Control of worker exposure: Non-industrial spraying (PROC11)**

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<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 1 %.	
Physical form of product	: Liquid, including paste/slurry/suspension
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity 8 h/day
<b>Technical and organisational conditions and measures</b>	
Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Basic.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
Use suitable eye protection. General measures (eye irritants)	
Use of appropriate dermal protection Dermal - minimum efficiency of $\geq 80$ %	
Wear suitable respiratory protection. APF 10	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 25 °C

**18.2.9. Control of worker exposure: Treatment of articles by dipping and pouring (PROC13)**

<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 1 %.	
Physical form of product	: Liquid, including paste/slurry/suspension
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity 1 h/day
<b>Technical and organisational conditions and measures</b>	
Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Basic.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
Use suitable eye protection. General measures (eye irritants)	
For further specification, refer to section 8 of the SDS.	

**Other conditions affecting workers exposure**

Indoor or outdoor use	:	Indoor use
Temperature	:	Assumes process temperature up to 25 °C

**18.2.10. Control of worker exposure: Manual activities involving hand contact (PROC19)****Product (article) characteristics**

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid, including paste/slurry/suspension

**Amount used (or contained in articles), frequency and duration of use/exposure**

Use frequency : Duration of the activity 8 h/day

**Technical and organisational conditions and measures**

Provide a basic standard of general ventilation (1 to 3 air changes per hour).  
Occupational Health and Safety Management System: Basic.

**Conditions and measures related to personal protection, hygiene and health evaluation**

Use suitable eye protection.  
General measures (eye irritants)

Use of appropriate dermal protection  
Dermal - minimum efficiency of  $\geq 80$  %

For further specification, refer to section 8 of the SDS.

**Other conditions affecting workers exposure**

Indoor or outdoor use	:	Indoor use
Temperature	:	Assumes process temperature up to 25 °C

**18.3. Exposure estimation and reference to its source****18.3.1. Environmental release and exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a)****Additional information on exposure estimation**

As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

**18.3.2. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,00551 mg/m <sup>3</sup> (ECETOC TRA)	< 0,01

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			worker v3)	
dermal	systemic	long-term	0,0034 mg/kg bw/day (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		< 0,01

### 18.3.3. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	1,652 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,028
dermal	systemic	long-term	0,069 mg/kg bw/day (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		0,034

### 18.3.4. Worker exposure: Chemical production where opportunity for exposure arises (PROC4)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	5,507 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,092
dermal	systemic	long-term	0,686 mg/kg bw/day (ECETOC TRA worker v3)	0,069
combined routes	systemic	long-term		0,16

### 18.3.5. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	2,753 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,046
dermal	systemic	long-term	1,371 mg/kg bw/day (ECETOC TRA worker v3)	0,137
combined routes	systemic	long-term		0,183

### 18.3.6. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR

inhalative	systemic	long-term	1,101 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,018
dermal	systemic	long-term	1,371 mg/kg bw/day (ECETOC TRA worker v3)	0,137
combined routes	systemic	long-term		0,155

**18.3.7. Worker exposure: Roller application or brushing (PROC10)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	13,76 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,229
dermal	systemic	long-term	2,743 mg/kg bw/day (ECETOC TRA worker v3)	0,274
combined routes	systemic	long-term		0,504

**18.3.8. Worker exposure: Non-industrial spraying (PROC11)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	5,507 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,092
dermal	systemic	long-term	2,143 mg/kg bw/day (ECETOC TRA worker v3)	0,214
combined routes	systemic	long-term		0,306

**18.3.9. Worker exposure: Treatment of articles by dipping and pouring (PROC13)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	1,101 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,018
dermal	systemic	long-term	1,371 mg/kg bw/day (ECETOC TRA worker v3)	0,137
combined routes	systemic	long-term		0,155

**18.3.10. Worker exposure: Manual activities involving hand contact (PROC19)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR

inhalative	systemic	long-term	13,76 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,229
dermal	systemic	long-term	2,829 mg/kg bw/day (ECETOC TRA worker v3)	0,283
combined routes	systemic	long-term		0,512

#### 18.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

##### Environment

If a DU has OC/RMMs outside specifications in the ES, then the DU can evaluate whether he works inside the boundaries set by the ES through scaling in EUSES.

The main driving parameters are :

- local amount used (tonnage)
- release factor prior to on-site treatment
- on-site wastewater treatment presence and efficiency
- dilution factor

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

##### Human Health

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least

**ES 19: Widespread use by professional workers****19.1. Title section**

<b>Exposure Scenario name</b>	: Professional uses as polishes and wax blends
<b>Structured Short Title</b>	: Widespread use by professional workers

Environment		
<b>CS 1</b>	<b>Professional end-use of polishes and wax blends</b>	ERC8a
Worker		
<b>CS 2</b>	<b>Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions</b>	PROC1
<b>CS 3</b>	<b>Chemical production where opportunity for exposure arises</b>	PROC4
<b>CS 4</b>	<b>Transfer of substance or mixture (charging/discharging) at non dedicated-facilities</b>	PROC8a
<b>CS 5</b>	<b>Roller application or brushing</b>	PROC10
<b>CS 6</b>	<b>Treatment of articles by dipping and pouring</b>	PROC13
<b>CS 7</b>	<b>Manual activities involving hand contact</b>	PROC19

**19.2. Conditions of use affecting exposure**

**19.2.1. Control of environmental exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a)**

**19.2.2. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)**

Product (article) characteristics	
Covers percentage substance in the product up to 1 %.	
Physical form of product	: Liquid, including paste/slurry/suspension
Amount used (or contained in articles), frequency and duration of use/exposure	
Use frequency	: Duration of the activity 8 h/day
Technical and organisational conditions and measures	
Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Basic.	
Conditions and measures related to personal protection, hygiene and health evaluation	
No specific measures identified.	
For further specification, refer to section 8 of the SDS.	
Other conditions affecting workers exposure	

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Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 25 °C

**19.2.3. Control of worker exposure: Chemical production where opportunity for exposure arises (PROC4)**

<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 1 %.	
Physical form of product	: Liquid, including paste/slurry/suspension
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity 8 h/day
<b>Technical and organisational conditions and measures</b>	
Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Basic.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
Use suitable eye protection. General measures (eye irritants)	
For further specification, refer to section 8 of the SDS.	
<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 25 °C

**19.2.4. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)**

<b>Product (article) characteristics</b>	
Covers percentage substance in the product up to 1 %.	
Physical form of product	: Liquid, including paste/slurry/suspension
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Use frequency	: Duration of the activity 1 h/day
<b>Technical and organisational conditions and measures</b>	
Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Basic.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
Use suitable eye protection. General measures (eye irritants)	

For further specification, refer to section 8 of the SDS.

#### Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 25 °C

#### 19.2.5. Control of worker exposure: Roller application or brushing (PROC10)

##### Product (article) characteristics

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid, including paste/slurry/suspension

##### Amount used (or contained in articles), frequency and duration of use/exposure

Use frequency : Duration of the activity 8 h/day

##### Technical and organisational conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).  
Occupational Health and Safety Management System: Basic.

##### Conditions and measures related to personal protection, hygiene and health evaluation

Use suitable eye protection.  
General measures (eye irritants)

For further specification, refer to section 8 of the SDS.

#### Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 25 °C

#### 19.2.6. Control of worker exposure: Treatment of articles by dipping and pouring (PROC13)

##### Product (article) characteristics

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid, including paste/slurry/suspension

##### Amount used (or contained in articles), frequency and duration of use/exposure

Use frequency : Duration of the activity 1 h/day

##### Technical and organisational conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).  
Occupational Health and Safety Management System: Basic.

**Conditions and measures related to personal protection, hygiene and health evaluation**

Use suitable eye protection.  
General measures (eye irritants)

For further specification, refer to section 8 of the SDS.

**Other conditions affecting workers exposure**

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 25 °C

**19.2.7. Control of worker exposure: Manual activities involving hand contact (PROC19)****Product (article) characteristics**

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid, including paste/slurry/suspension

**Amount used (or contained in articles), frequency and duration of use/exposure**

Use frequency : Duration of the activity 8 h/day

**Technical and organisational conditions and measures**

Provide a basic standard of general ventilation (1 to 3 air changes per hour).  
Occupational Health and Safety Management System: Basic.

**Conditions and measures related to personal protection, hygiene and health evaluation**

Use suitable eye protection.  
General measures (eye irritants)

Use of appropriate dermal protection  
Dermal - minimum efficiency of  $\geq 80$  %

For further specification, refer to section 8 of the SDS.

**Other conditions affecting workers exposure**

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 25 °C

**19.3. Exposure estimation and reference to its source****19.3.1. Environmental release and exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a)****Additional information on exposure estimation**

As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

**19.3.2. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,00551 mg/m <sup>3</sup> (ECETOC TRA worker v3)	< 0,01
dermal	systemic	long-term	0,0034 mg/kg bw/day (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		< 0,01

**19.3.3. Worker exposure: Chemical production where opportunity for exposure arises (PROC4)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	5,507 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,092
dermal	systemic	long-term	0,686 mg/kg bw/day (ECETOC TRA worker v3)	0,069
combined routes	systemic	long-term		0,16

**19.3.4. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	2,753 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,046
dermal	systemic	long-term	1,371 mg/kg bw/day (ECETOC TRA worker v3)	0,137
combined routes	systemic	long-term		0,183

**19.3.5. Worker exposure: Roller application or brushing (PROC10)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	13,76 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,229
dermal	systemic	long-term	2,743 mg/kg bw/day (ECETOC TRA worker v3)	0,274
combined routes	systemic	long-term		0,504

**19.3.6. Worker exposure: Treatment of articles by dipping and pouring (PROC13)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	1,101 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,018
dermal	systemic	long-term	1,371 mg/kg bw/day (ECETOC TRA worker v3)	0,137
combined routes	systemic	long-term		0,155

**19.3.7. Worker exposure: Manual activities involving hand contact (PROC19)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	13,76 mg/m <sup>3</sup> (ECETOC TRA worker v3)	0,229
dermal	systemic	long-term	2,829 mg/kg bw/day (ECETOC TRA worker v3)	0,283
combined routes	systemic	long-term		0,512

**19.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES****Environment**

If a DU has OC/RMMs outside specifications in the ES, then the DU can evaluate whether he works inside the boundaries set by the ES through scaling in EUSES.

The main driving parameters are :

- local amount used (tonnage)
- release factor prior to on-site treatment
- on-site wastewater treatment presence and efficiency
- dilution factor

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

**Human Health**

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least

**ES 20: Consumer use****20.1. Title section**

<b>Exposure Scenario name</b>	: Consumers end-use of washing and cleaning products
<b>Structured Short Title</b>	: Consumer use

Environment		
<b>CS 1</b>	<b>Consumers end-use of washing and cleaning products, Covers indoor and outdoor use.</b>	ERC8d, ERC8a
Consumer		
<b>CS 2</b>	<b>Laundry products</b>	PC35,
<b>CS 3</b>	<b>Fabric conditioners</b>	PC35,
<b>CS 4</b>	<b>Surface cleaners, no spraying</b>	PC35
<b>CS 5</b>	<b>Toilet cleaners, no spraying</b>	PC35
<b>CS 6</b>	<b>Carpet cleaners, No spraying</b>	PC35
<b>CS 7</b>	<b>Wipes</b>	PC35
<b>CS 8</b>	<b>High pressure washers/cleaners</b>	PC35
<b>CS 9</b>	<b>Automotive care, no spraying</b>	PC35
<b>CS 10</b>	<b>Surface cleaners (liquid), Spraying</b>	PC35
<b>CS 11</b>	<b>Oven cleaners, Spraying</b>	PC35
<b>CS 12</b>	<b>Carpet cleaners, Spraying</b>	PC35
<b>CS 13</b>	<b>Automotive care, Spraying</b>	PC35
<b>CS 14</b>	<b>Machine dishwashing products</b>	PC35,
<b>CS 15</b>	<b>Hand dishwashing liquids</b>	PC35,

**20.2. Conditions of use affecting exposure**

**20.2.1. Control of environmental exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8d) / Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a)**

**20.2.2. Control of consumer exposure: Washing and cleaning products (PC35) / AISE\_SCED\_PC35\_1\_a\_1 ()**

Product (article) characteristics	
Covers concentrations up to 0,05 %	
Amount used (or contained in articles), frequency and duration of use/exposure	
Exposure frequency	: 1 events/day
Use frequency	: Frequent

**Other conditions affecting consumers exposure**

Body parts exposed : Assumes that potential dermal contact is limited to hands.

**20.2.3. Control of consumer exposure: Washing and cleaning products (PC35) / AISE\_SCED\_PC35\_2\_a\_1 ()****Product (article) characteristics**

Covers concentrations up to 0,1 %

**Amount used (or contained in articles), frequency and duration of use/exposure**

Exposure frequency : 1 events/day

Use frequency : Frequent 210 days/year

**Other conditions affecting consumers exposure**

Body parts exposed : Assumes that potential dermal contact is limited to hands.

**20.2.4. Control of consumer exposure: Washing and cleaning products (PC35)****Product (article) characteristics**

Covers concentrations up to 0,1 %

Physical form of product : No spray

**Amount used (or contained in articles), frequency and duration of use/exposure**

Exposure frequency : 1 events/day

Amount per Application : 60 g/event

Use frequency : Frequent 0,33 h/event

**Other conditions affecting consumers exposure**

Body parts exposed : Assumes that potential dermal contact is limited to hands.

Indoor or outdoor use : Indoor use

**20.2.5. Control of consumer exposure: Washing and cleaning products (PC35)****Product (article) characteristics**

Covers concentrations up to 0,3 %

Physical form of product : No spray

**Amount used (or contained in articles), frequency and duration of use/exposure**

Exposure frequency : 1 events/day

Amount per Application : 35 g/event

Use frequency	: Frequent 0,02 h/event
<b>Other conditions affecting consumers exposure</b>	
Body parts exposed	: Assumes that potential dermal contact is limited to hands.
Indoor or outdoor use	: Indoor use

**20.2.6. Control of consumer exposure: Washing and cleaning products (PC35)**

<b>Product (article) characteristics</b>	
Covers concentrations up to 0,1 %	
Physical form of product	: No spray
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Exposure frequency	: 1 events/day
Amount per Application	: 110 g/event
Use frequency	: Frequent 0,3 h/event
<b>Other conditions affecting consumers exposure</b>	
Body parts exposed	: Assumes that potential dermal contact is limited to hands.
Indoor or outdoor use	: Indoor use

**20.2.7. Control of consumer exposure: Washing and cleaning products (PC35)**

<b>Product (article) characteristics</b>	
Covers concentrations up to 0,1 %	
Physical form of product	: No spray
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Exposure frequency	: 1 events/day
Amount per Application	: 26 g/event
Use frequency	: Frequent 0,08 h/event
<b>Other conditions affecting consumers exposure</b>	
Body parts exposed	: Assumes that potential dermal contact is limited to hands.
Indoor or outdoor use	: Indoor use

**20.2.8. Control of consumer exposure: Washing and cleaning products (PC35)**

<b>Product (article) characteristics</b>
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Covers concentrations up to 0,1 %	
Physical form of product	: No spray
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Exposure frequency	: 1 events/day
Amount per Application	: 50 g/event
Use frequency	: Infrequent 5 h/event
<b>Other conditions affecting consumers exposure</b>	
Body parts exposed	: Assumes that potential dermal contact is limited to hands.
Indoor or outdoor use	: Indoor use

**20.2.9. Control of consumer exposure: Washing and cleaning products (PC35)**

<b>Product (article) characteristics</b>	
Covers concentrations up to 0,25 %	
Physical form of product	: No spray
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Exposure frequency	: 1 events/day
Amount per Application	: 200 g/event
Use frequency	: Infrequent 5 h/event
<b>Other conditions affecting consumers exposure</b>	
Body parts exposed	: Assumes that potential dermal contact is limited to hands.
Indoor or outdoor use	: Indoor use

**20.2.10. Control of consumer exposure: Washing and cleaning products (PC35)**

<b>Product (article) characteristics</b>	
Covers concentrations up to 0,1 %	
Physical form of product	: Sprays
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Exposure frequency	: 1 events/day
Amount per Application	: 30 g/event
Use frequency	: Frequent 0,33 h/event
<b>Other conditions affecting consumers exposure</b>	

Body parts exposed	: Assumes that potential dermal contact is limited to hands.
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**20.2.11. Control of consumer exposure: Washing and cleaning products (PC35)**

<b>Product (article) characteristics</b>	
Covers concentrations up to 0,1 %	
Physical form of product	: Sprays
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Exposure frequency	: 1 events/day
Amount per Application	: 30 g/event
Use frequency	: Frequent 0,2 h/event
<b>Other conditions affecting consumers exposure</b>	
Body parts exposed	: Assumes that potential dermal contact is limited to hands.
Indoor or outdoor use	: Indoor

**20.2.12. Control of consumer exposure: Washing and cleaning products (PC35)**

<b>Product (article) characteristics</b>	
Covers concentrations up to 0,1 %	
Physical form of product	: Sprays
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Exposure frequency	: 1 events/day
Amount per Application	: 30 g/event
Use frequency	: Frequent 0,2 h/event
<b>Other conditions affecting consumers exposure</b>	
Body parts exposed	: Assumes that potential dermal contact is limited to hands.
Indoor or outdoor use	: Indoor use

**20.2.13. Control of consumer exposure: Washing and cleaning products (PC35)**

<b>Product (article) characteristics</b>	
Covers concentrations up to 0,25 %	
Physical form of product	: Sprays
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	

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Exposure frequency	: 1 events/day
Amount per Application	: 200 g/event
Use frequency	: Frequent 5 h/event
<b>Other conditions affecting consumers exposure</b>	
Body parts exposed	: Assumes that potential dermal contact is limited to hands.
Indoor or outdoor use	: Indoor use

**20.2.14. Control of consumer exposure: Washing and cleaning products (PC35) / AISE\_SCED\_PC35\_4\_a\_1 ()**

<b>Product (article) characteristics</b>	
Covers concentrations up to 0,05 %	
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Exposure frequency	: 1 events/day
Use frequency	: Frequent 261 days/year
<b>Other conditions affecting consumers exposure</b>	
Body parts exposed	: Assumes that potential dermal contact is limited to inside hands / one hand / palm of hands.

**20.2.15. Control of consumer exposure: Washing and cleaning products (PC35) / AISE\_SCED\_PC35\_5\_a\_1 ()**

<b>Product (article) characteristics</b>	
Covers concentrations up to 0,05 %	
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
Exposure frequency	: 2 events/day
Use frequency	: Frequent 365 days/year
<b>Other conditions affecting consumers exposure</b>	
Body parts exposed	: Assumes that potential dermal contact is limited to hands.

**20.3. Exposure estimation and reference to its source**

**20.3.1. Environmental release and exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8d) / Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a)**

<b>Additional information on exposure estimation</b>
As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

**20.3.2. Consumer exposure: Washing and cleaning products (PC35) / AISE\_SCED\_PC35\_1\_a\_1 ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0 mg/m <sup>3</sup> (ECETOC TRA consumer v3)	< 0,01
dermal	systemic	long-term	0,071 mg/kg bw/day (ECETOC TRA consumer v3)	0,014
oral	systemic	long-term	0 mg/kg bw/day (ECETOC TRA consumer v3)	< 0,01
combined routes	systemic	long-term		0,014

**20.3.3. Consumer exposure: Washing and cleaning products (PC35) / AISE\_SCED\_PC35\_2\_a\_1 ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0 mg/m <sup>3</sup> (ECETOC TRA consumer v3)	< 0,01
dermal	systemic	long-term	0,143 mg/kg bw/day (ECETOC TRA consumer v3)	0,029
oral	systemic	long-term	0 mg/kg bw/day (ECETOC TRA consumer v3)	< 0,01
combined routes	systemic	long-term		0,029

**20.3.4. Consumer exposure: Washing and cleaning products (PC35)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	2,504 mg/m <sup>3</sup> (ECETOC TRA consumer v3)	0,167
dermal	systemic	long-term	0,143 mg/kg bw/day (ECETOC TRA consumer v3)	0,029
oral	systemic	long-term	0 mg/kg bw/day (ECETOC TRA consumer v3)	< 0,01
combined routes	systemic	long-term		0,196

**20.3.5. Consumer exposure: Washing and cleaning products (PC35)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	1,155 mg/m <sup>3</sup> (ECETOC TRA)	0,077

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			consumer v3)	
dermal	systemic	long-term	0,429 mg/kg bw/day (ECETOC TRA consumer v3)	0,086
oral	systemic	long-term	0 mg/kg bw/day (ECETOC TRA consumer v3)	< 0,01
combined routes	systemic	long-term		0,163

## 20.3.6. Consumer exposure: Washing and cleaning products (PC35)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	1,554 mg/m <sup>3</sup> (ECETOC TRA consumer v3)	0,104
dermal	systemic	long-term	0,143 mg/kg bw/day (ECETOC TRA consumer v3)	0,029
oral	systemic	long-term	0 mg/kg bw/day (ECETOC TRA consumer v3)	< 0,01
combined routes	systemic	long-term		0,132

## 20.3.7. Consumer exposure: Washing and cleaning products (PC35)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	1,238 mg/m <sup>3</sup> (ECETOC TRA consumer v3)	0,083
dermal	systemic	long-term	0,143 mg/kg bw/day (ECETOC TRA consumer v3)	0,029
oral	systemic	long-term	0 mg/kg bw/day (ECETOC TRA consumer v3)	< 0,01
combined routes	systemic	long-term		0,111

## 20.3.8. Consumer exposure: Washing and cleaning products (PC35)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,625 mg/m <sup>3</sup> (ECETOC TRA consumer v3)	0,042
dermal	systemic	long-term	0,143 mg/kg bw/day (ECETOC TRA consumer v3)	0,029

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oral	systemic	long-term	0 mg/kg bw/day (ECETOC TRA consumer v3)	< 0,01
combined routes	systemic	long-term		0,07

**20.3.9. Consumer exposure: Washing and cleaning products (PC35)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	6,25 mg/m <sup>3</sup> (ECETOC TRA consumer v3)	0,417
dermal	systemic	long-term	0,357 mg/kg bw/day (ECETOC TRA consumer v3)	0,071
oral	systemic	long-term	0 mg/kg bw/day (ECETOC TRA consumer v3)	< 0,01
combined routes	systemic	long-term		0,488

**20.3.10. Consumer exposure: Washing and cleaning products (PC35)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,417 mg/m <sup>3</sup> (ECETOC TRA consumer v3)	0,028
dermal	systemic	long-term	0,143 mg/kg bw/day (ECETOC TRA consumer v3)	0,029
oral	systemic	long-term	0 mg/kg bw/day (ECETOC TRA consumer v3)	< 0,01
combined routes	systemic	long-term		0,056

**20.3.11. Consumer exposure: Washing and cleaning products (PC35)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,298 mg/m <sup>3</sup> (ECETOC TRA consumer v3)	0,02
dermal	systemic	long-term	0,143 mg/kg bw/day (ECETOC TRA consumer v3)	0,029
oral	systemic	long-term	0 mg/kg bw/day (ECETOC TRA consumer v3)	< 0,01
combined routes	systemic	long-term		0,048

**20.3.12. Consumer exposure: Washing and cleaning products (PC35)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0,298 mg/m <sup>3</sup> (ECETOC TRA consumer v3)	0,02
dermal	systemic	long-term	0,143 mg/kg bw/day (ECETOC TRA consumer v3)	0,029
oral	systemic	long-term	0 mg/kg bw/day (ECETOC TRA consumer v3)	< 0,01
combined routes	systemic	long-term		0,048

**20.3.13. Consumer exposure: Washing and cleaning products (PC35)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	6,25 mg/m <sup>3</sup> (ECETOC TRA consumer v3)	0,417
dermal	systemic	long-term	0,357 mg/kg bw/day (ECETOC TRA consumer v3)	0,071
oral	systemic	long-term	0 mg/kg bw/day (ECETOC TRA consumer v3)	< 0,01
combined routes	systemic	long-term		0,488

**20.3.14. Consumer exposure: Washing and cleaning products (PC35) / AISE\_SCED\_PC35\_4\_a\_1 ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	0 mg/m <sup>3</sup> (ECETOC TRA consumer v3)	< 0,01
dermal	systemic	long-term	0,036 mg/kg bw/day (ECETOC TRA consumer v3)	< 0,01
oral	systemic	long-term	0 mg/kg bw/day (ECETOC TRA consumer v3)	< 0,01
combined routes	systemic	long-term		< 0,01

**20.3.15. Consumer exposure: Washing and cleaning products (PC35) / AISE\_SCED\_PC35\_5\_a\_1 ()**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
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inhalative	systemic	long-term	0 mg/m <sup>3</sup> (ECETOC TRA consumer v3)	< 0,01
dermal	systemic	long-term	0,143 mg/kg bw/day (ECETOC TRA consumer v3)	0,029
oral	systemic	long-term	0 mg/kg bw/day (ECETOC TRA consumer v3)	< 0,01
combined routes	systemic	long-term		0,029

#### 20.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

##### Environment

If a DU has OC/RMMs outside specifications in the ES, then the DU can evaluate whether he works inside the boundaries set by the ES through scaling in EUSES.

The main driving parameters are :

- local amount used (tonnage)
- release factor prior to on-site treatment
- on-site wastewater treatment presence and efficiency
- dilution factor

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

##### Human Health

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least

**ES 21: Consumer use****21.1. Title section**

<b>Exposure Scenario name</b>	: Consumer end-use of air care products
<b>Structured Short Title</b>	: Consumer use

Environment		
<b>CS 1</b>	<b>Consumer end-use of air care products</b>	ERC8a
Consumer		
<b>CS 2</b>	<b>Air care products (non-aerosol)</b>	PC3,
<b>CS 3</b>	<b>Air care products (aerosol)</b>	PC3,

**21.2. Conditions of use affecting exposure**

**21.2.1. Control of environmental exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a)**

**21.2.2. Control of consumer exposure: Air care products (PC3) / AISE\_SCED\_PC3\_7\_a\_1 ()**

Product (article) characteristics	
Covers concentrations up to 5 %	
Physical form of product	: No spray
Amount used (or contained in articles), frequency and duration of use/exposure	
Exposure frequency	: 1 events/day
Amount per Application	: 2,5 g/event
Use frequency	: Frequent 8 h/event
Other conditions affecting consumers exposure	
Body parts exposed	: Assumes that potential dermal contact is limited to fingertips.
Indoor or outdoor use	: Indoor

**21.2.3. Control of consumer exposure: Air care products (PC3) / AISE\_SCED\_PC3\_7\_b\_1 ()**

Product (article) characteristics	
Covers concentrations up to 0,25 %	
Physical form of product	: Sprays
Amount used (or contained in articles), frequency and duration of use/exposure	
Exposure frequency	: 2 events/day

Amount per Application	: 10 g/event
Use frequency	: Frequent 0,25 h/event
<b>Other conditions affecting consumers exposure</b>	
Indoor or outdoor use	: Indoor

### 21.3. Exposure estimation and reference to its source

21.3.1. Environmental release and exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a)

<b>Additional information on exposure estimation</b>
As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

### 21.3.2. Consumer exposure: Air care products (PC3) / AISE\_SCED\_PC3\_7\_a\_1 ()

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	1,078 mg/m <sup>3</sup> (ECETOC TRA consumer v3)	0,072
dermal	systemic	long-term	0,125 mg/kg bw/day (ECETOC TRA consumer v3)	0,025
oral	systemic	long-term	0 mg/kg bw/day (ECETOC TRA consumer v3)	< 0,01
combined routes	systemic	long-term		0,097

### 21.3.3. Consumer exposure: Air care products (PC3) / AISE\_SCED\_PC3\_7\_b\_1 ()

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	2,174 mg/m <sup>3</sup> (ECETOC TRA consumer v3)	0,145
dermal	systemic	long-term	0 mg/kg bw/day (ECETOC TRA consumer v3)	< 0,01
oral	systemic	long-term	0 mg/kg bw/day (ECETOC TRA consumer v3)	< 0,01
combined routes	systemic	long-term		0,145

### 21.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES Environment

If a DU has OC/RMMs outside specifications in the ES, then the DU can evaluate whether he works inside the boundaries set by the ES through scaling in EUSES.

The main driving parameters are :

- local amount used (tonnage)
- release factor prior to on-site treatment
- on-site wastewater treatment presence and efficiency
- dilution factor

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Human Health

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least

**ES 22: Consumer use****22.1. Title section**

<b>Exposure Scenario name</b>	: Consumer, End-uses of polish and wax blends
<b>Structured Short Title</b>	: Consumer use

Environment		
<b>CS 1</b>	<b>Consumer end-use of polishes and wax blends</b>	ERC8a
Consumer		
<b>CS 2</b>	<b>Polishes, wax / cream, No spraying</b>	PC31,
<b>CS 3</b>	<b>Polishes and wax blends, Spraying</b>	PC31,

**22.2. Conditions of use affecting exposure**

**22.2.1. Control of environmental exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a)**

**22.2.2. Control of consumer exposure: Polishes and wax blends (PC31) / AISE\_SCED\_PC31\_6\_a\_1 ()**

Product (article) characteristics	
Covers concentrations up to 0,1 %	
Physical form of product	: No spray
Amount used (or contained in articles), frequency and duration of use/exposure	
Exposure frequency	: 1 events/day
Amount per Application	: 550 g/event
Use frequency	: Infrequent 4 h/event
Other conditions affecting consumers exposure	
Body parts exposed	: Assumes that potential dermal contact is limited to inside hands / one hand / palm of hands.
Indoor or outdoor use	: Indoor

**22.2.3. Control of consumer exposure: Polishes and wax blends (PC31) / AISE\_SCED\_PC31\_6\_b\_1 ()**

Product (article) characteristics	
Covers concentrations up to 0,1 %	
Physical form of product	: Sprays
Amount used (or contained in articles), frequency and duration of use/exposure	
Exposure frequency	: 1 events/day

Amount per Application	:	135 g/event
Use frequency	:	Infrequent 1 h/event
<b>Other conditions affecting consumers exposure</b>		
Body parts exposed	:	Assumes that potential dermal contact is limited to inside hands / one hand / palm of hands.
Indoor or outdoor use	:	Indoor

## 22.3. Exposure estimation and reference to its source

### 22.3.1. Environmental release and exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a)

<b>Additional information on exposure estimation</b>
As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

### 22.3.2. Consumer exposure: Polishes and wax blends (PC31) / AISE\_SCED\_PC31\_6\_a\_1 ()

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	8,088 mg/m <sup>3</sup> (ECETOC TRA consumer v3)	0,539
dermal	systemic	long-term	0,071 mg/kg bw/day (ECETOC TRA consumer v3)	0,014
oral	systemic	long-term	0 mg/kg bw/day (ECETOC TRA consumer v3)	< 0,01
combined routes	systemic	long-term		0,554

### 22.3.3. Consumer exposure: Polishes and wax blends (PC31) / AISE\_SCED\_PC31\_6\_b\_1 ()

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	long-term	4,219 mg/m <sup>3</sup> (ECETOC TRA consumer v3)	0,281
dermal	systemic	long-term	0,071 mg/kg bw/day (ECETOC TRA consumer v3)	0,014
oral	systemic	long-term	0 mg/kg bw/day (ECETOC TRA consumer v3)	< 0,01
combined routes	systemic	long-term		0,296

**22.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES****Environment**

If a DU has OC/RMMs outside specifications in the ES, then the DU can evaluate whether he works inside the boundaries set by the ES through scaling in EUSES.

The main driving parameters are :

- local amount used (tonnage)
- release factor prior to on-site treatment
- on-site wastewater treatment presence and efficiency
- dilution factor

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

**Human Health**

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least

**ES 23: Consumer use****23.1. Title section**

<b>Exposure Scenario name</b>	: Consumer, End use of cosmetic products
<b>Structured Short Title</b>	: Consumer use

Environment		
<b>CS 1</b>	<b>Consumer end-use of cosmetics</b>	ERC8a
Consumer		
<b>CS 2</b>	<b>Perfumes, fragrances</b>	PC28
<b>CS 3</b>	<b>Cosmetics, personal care products</b>	PC39

**23.2. Conditions of use affecting exposure**

**23.2.1. Control of environmental exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a)**

**23.2.2. Control of consumer exposure: Perfumes, fragrances (PC28)**

**23.2.3. Control of consumer exposure: Cosmetics, personal care products (PC39)**

**23.3. Exposure estimation and reference to its source**

**23.3.1. Environmental release and exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a)**

Additional information on exposure estimation
As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

**23.3.2. Consumer exposure: Perfumes, fragrances (PC28)**

Additional information on exposure estimation
In accordance to the Article 14 (5b) of the REACH Regulation (EC) No 1907/2006, exposure estimation and risk characterisation for human health does not need to be performed for end uses in cosmetic products within the scope of Directive 76/768/EEC.

**23.3.3. Consumer exposure: Cosmetics, personal care products (PC39)**

Additional information on exposure estimation
In accordance to the Article 14 (5b) of the REACH Regulation (EC) No 1907/2006, exposure estimation and risk characterisation for human health does not need to be performed for end uses in cosmetic products within the scope of Directive 76/768/EEC.

**23.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES****Environment**

If a DU has OC/RMMs outside specifications in the ES, then the DU can evaluate whether he works inside the boundaries set by the ES through scaling in EUSES.

The main driving parameters are :

- local amount used (tonnage)
- release factor prior to on-site treatment
- on-site wastewater treatment presence and efficiency
- dilution factor

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

**Human Health**

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least