

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

# Givaudan

## NYMPHEAL

Version 19.0

Revision Date 26 JUN 2023

Print Date 11 JAN 2024

### SECTION 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Sales No. : 1489703  
NYMPHEAL

Substance name : 3-(4-isobutyl-2-methylphenyl)propanal  
Identifier

CAS-No. : 1637294-12-2  
EC-No. : 811-285-3  
Formula : C<sub>14</sub>H<sub>20</sub>O

REACH Registration Number : 01-2120103156-71

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Intended Use Fragrances : Perfumery ingredient

#### 1.3 Details of the supplier of the safety data sheet

Company :  
Givaudan Suisse SA  
Chemin de la Parfumerie 5  
CH-1214 VERNIER

Telephone : +41227809111  
Telefax : +41227809150  
E-mail address : global.sds\_info@givaudan.com  
Responsible/issuing person

#### 1.4 Emergency Call

Givaudan 24/7 call : +33172110003

Please refer to section 16 for a full list of emergency phone numbers, from Givaudan's 24/7 provider.

### SECTION 2. Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4	H332: Harmful if inhaled.
Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Skin sensitisation, Sub-category 1B	H317: May cause an allergic skin reaction.
Long-term (chronic) aquatic hazard,	H411: Toxic to aquatic life with long lasting effects.

##### Administrative information:

Report Information: SDS\_CH/EN/GHS\_SDS\_EU\_CNTRY/43

Sales & Distribution Information: VE01/FR/CH11/01

Shipping Order Information: 29 030 297/24 588 809

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### Category 2

## 2.2 Label elements

### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word :

Warning

Hazard statements :

H315

Causes skin irritation.

H317

May cause an allergic skin reaction.

H319

Causes serious eye irritation.

H332

Harmful if inhaled.

H411

Toxic to aquatic life with long lasting effects.

Precautionary statements :

**Prevention:**

P261

Avoid breathing mist or vapours.

P264

Wash skin thoroughly after handling.

P273

Avoid release to the environment.

P280

Wear protective gloves/ eye protection/ face protection.

**Response:**

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.

P391

Collect spillage.

Hazardous components which must be listed on the label:

- 3-(4-isobutyl-2-methylphenyl)propanal

1637294-12-2

## 2.3 Other hazards

Hazards not Otherwise Classified.

: None

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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.

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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 Substances

Chemical name	CAS-No. EC-No. REACH Registration Number	Concentration [Percent by weight]	M-Factor, SCL, ATE
3-(4-isobutyl-2-methylphenyl)propanal	1637294-12-2 811-285-3 01-2120103156-71	>= 90 - <= 100	

## SECTION 4. First aid measures

### 4.1 Description of first aid measures

- General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled : Move to fresh air.  
If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : If skin irritation persists, call a physician.  
If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : Remove contact lenses.  
Immediately flush eyes for at least 15 minutes. Get medical attention.
- If swallowed : Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

### 4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : no data available

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**Risks** : Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye irritation.  
Harmful if inhaled.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment : no data available

## SECTION 5. Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Dry chemical  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Water spray

Unsuitable extinguishing media : High volume water jet

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

### 5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : 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

Personal precautions : no data available

### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.  
If the product contaminates rivers and lakes or drains inform respective authorities.

### 6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.

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### 6.4 Reference to other sections

Not applicable

## SECTION 7. Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.  
Temperature class : no data available  
Fire-fighting class : no data available  
Dust explosion class : no data available

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Electrical installations / working materials must comply with the technological safety standards.

Further information on storage conditions : Store Ambient 10-30°C (50-85°F)  
Dry, well ventilated, preferably full, hermetically sealed  
Advice on common storage : Protect against light.Store under nitrogen  
Storage class (TRGS 510) : 10 Combustible liquids  
Other data : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

Please refer to attached exposure scenarios.

## SECTION 8. Exposure controls/personal protection

### 8.1 Control parameters

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Contains no substances with occupational exposure limit values.

DNEL	: End Use: Consumer use Exposure routes: Dermal Potential health effects: Long-term local effects Value: 0,08929 mg/cm2
DNEL	: End Use: Consumer use Exposure routes: Dermal Potential health effects: Long-term systemic effects Value: 0,42 mg/kg bw/day
DNEL	: End Use: Consumer use Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 0,435 mg/m3
DNEL	: End Use: Consumer use Exposure routes: Oral Potential health effects: Long-term systemic effects Value: 0,25 mg/kg bw/day
DNEL	: End Use: Workers Exposure routes: Dermal Potential health effects: Long-term local effects Value: 0,17857 mg/cm2
DNEL	: End Use: Workers Exposure routes: Dermal Potential health effects: Long-term systemic effects Value: 0,83 mg/kg bw/day
DNEL	: End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 2,47 mg/m3
PNEC	: Fresh water Value: 0,0064 mg/l
PNEC	: Marine water Value: 0,00064 mg/l
PNEC	: Oral Value: 5,0 mg/kg
PNEC	: Fresh water sediment Value: 1,3 mg/kg dry weight (d.w.)
PNEC	: Marine sediment

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	Value: 0,13 mg/kg dry weight (d.w.)
PNEC	: Soil Value: 0,256 mg/kg dry weight (d.w.)
PNEC	: Sewage treatment plant Value: 1,0 mg/l

### 8.2 Exposure controls

Exposure assessment: Exposures are dependent on the product being handled, the potential for chemical release, and any resulting airborne concentrations or dermal contact. Since product handling and release scenarios vary, and no two workplaces are exactly alike, it is recommended that the potential for exposure be assessed prior to the product's use or introduction. Exposure assessments should be performed by an occupational hygienist, industrial hygienist, or other qualified occupational or environmental health professional. An exposure assessment should be conducted to determine the efficacy of any ventilation and the need for additional PPE. The PPE indicated below are recommendations for worst-case scenario exposures. An exposure assessment will identify more applicable measures to be implemented. EN and ANSI standards are mentioned in the following recommendations, consult equivalent local standards when required.

PPE is always the last resort to avoid exposure. In any case technical and organisational measures have to be explored and used prior to the selection of PPE. The PPE selection is for operators trained to work with chemicals according to good industrial hygiene and safety practice. Operators have to be trained on the use of PPE.

#### 8.2.1 Engineering measures

Use engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use the product only with adequate ventilation.

#### 8.2.2 Personal protective equipment

Eye/face protection	: Use safety goggles and faceshield tested according to EN 166/ ANSI Z87.1 or equivalent local standard.
Hand protection	: Use gloves when handling substance in open systems. Inspect gloves prior to use. Train operators for proper use. If only incidental exposure is expected: (work without direct contact to substance) use gloves tested according EN 16523-1/ASTM F739 or equivalent local standard breakthrough times at least 10 minutes, tested for chemicals indicated in chapter 3 of this SDS. Change gloves frequently. If direct skin contact is expected: use gloves tested according to EN 16523-1/ASTM F739 or equivalent local standard, tested for chemicals indicated in chapter 3 of this SDS. Permeation time must exceed contact time.

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- Other skin protection : Wear working clothes covering arms and legs.  
The type of protective equipment must be selected according to the concentration and amount of the hazardous substance at the specific workplace. Use apron and sleeve covers or complete chemical suit if exposure is expected.
- Respiratory protection : Respiratory protection should be worn when workplace exposures exceed exposure limit requirements or guidelines. If there are no applicable exposure limits or guidelines, use an approved respirator where there is a potential for adverse effects, including but not limited to respiratory irritation or odor, or where indicated by the exposure assessment. Selection of air-purifying or positive-pressure supplied-air will depend on the results of the exposure assessment which includes an evaluation of the specific operations and the potential airborne concentrations. For emergency conditions, use an approved positive-pressure self-contained breathing apparatus.
- In case a risk analysis proved the cartridge respirator as acceptable, use type:  
ABEK-P3 (EN 14387) OR Combination Multi-gas/P100 (42CFR84.193; ANSI Z88.7 or equivalent local standard) as a backup to engineering controls.
- In absence of engineering controls, use self-contained breathing apparatus or full face supplied air respirators. Use respirators and components tested and approved under appropriate government standards such as CEN (EU) or NIOSH 42 CFR 84(US).
- Thermal hazards : Wear appropriate thermal protective clothing, when necessary.
- Hygiene measures : Remove contaminated clothing and protective equipment before entering eating areas.  
Do not eat, drink or smoke during work.  
Wash hands any time after handling the product.

### 8.2.3 Environmental exposure controls

- General advice : Prevent product from entering drains.  
If the product contaminates rivers and lakes or drains inform respective authorities.

## SECTION 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Physical state : liquid  
Form : liquid

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Colour	: colorless to Pale yellow
Taste	: not determined
Odour	: Floral, Aldehydic, Green, Lily-of-the-valley
Odour Threshold	: 0,06 ng/l
Flash point	: 144,5 °C Method: Pensky-Martens closed cup Regulation (EC) No. 440/2008, Annex, A.9
Lower explosion limit	: not determined
Upper explosion limit	: not determined
Flammability	: no data available
Particle size	: no data available
Oxidizing properties	: The substance or mixture is not classified as oxidizing. Information taken from reference works and the literature.
Auto-ignition temperature	: 395 °C Method: A15
Decomposition temperature	: no data available
Molecular weight	: 204,2 g/mol
pH	: no data available
Melting point	: < -50 °C Method: OECD Test Guideline 102
Boiling point	: 284 °C at 1 013 hPa Method: OECD Test Guideline 103
Vapour pressure	: 0,001 hPa at 20 °C Method: OECD Test Guideline 104
Density	: 950,28 kg/m3 at 20 °C
Bulk density	: Not applicable
Water solubility	: 24,5 mg/l at 20 °C Method: OECD Test Guideline 105
Solubility/qualitative	: practically insoluble
Partition coefficient: n-octanol/water	: log Pow: 3,7 Method: OECD Test Guideline 117
Viscosity, kinematic	: no data available
Relative vapour density	: no data available
Surface tension	: 45,9 mN/m Method: OECD Test Guideline 115
Evaporation rate	: no data available
Explosive properties	: Not explosive

### 9.2 Other information

Not applicable

## SECTION 10. Stability and reactivity

### 10.1 Reactivity

none

### 10.2 Chemical stability

The product is chemically stable.

### 10.3 Possibility of hazardous reactions

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Hazardous reactions : No decomposition if stored and applied as directed.

### 10.4 Conditions to avoid

Conditions to avoid : no data available

### 10.5 Incompatible materials

Materials to avoid : no data available

### 10.6 Hazardous decomposition products

Hazardous decomposition products : no data available

Thermal decomposition : no data available

## SECTION 11. Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

**Acute oral toxicity** : LD50 Rat  
Dose: > 2 000 mg/kg  
Method: OECD Test Guideline 420

**Acute inhalation toxicity** : LC50 Rat  
Exposure time: 4 h  
Dose: > 1,00 mg/l

**Acute inhalation toxicity** :

**Acute dermal toxicity** : LD50 Dermal Rat  
Dose: > 2 000 mg/kg  
Method: OECD Test Guideline 402

**Acute toxicity (other routes of administration)** : No data is available on the product itself.

#### Skin corrosion/irritation

Skin irritation : Species: In vitro  
Skin irritation  
Method: OECD Test Guideline 439

#### Serious eye damage/eye irritation

Eye irritation : Species: Rabbit  
Mild eye irritation  
Method: OECD Test Guideline 405

#### Respiratory or skin sensitisation

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Sensitisation : LLNA  
Result: Causes sensitisation.  
Method: OECD Test Guideline 429

### Germ cell mutagenicity

Genotoxicity in vitro : Ames test  
Escherichia coli  
negative  
Method: OECD Test Guideline 471

In vitro mammalian cell gene mutation test  
mouse lymphoma cells  
negative  
Method: OECD Test Guideline 490

Micronucleus test  
Human lymphocytes  
negative  
Method: OECD Test Guideline 487

### Carcinogenicity

Carcinogenicity : No data is available on the product itself.

### Reproductive toxicity

Not classified based on available information.

Effects on foetal development : Test Type: reproductive and developmental toxicity study  
Species: Rat, male and female  
Strain: wistar  
Application Route: Dermal  
General Toxicity Maternal: NOAEL: > 250 mg/kg body weight  
Developmental Toxicity: NOAEL F1: > 250 mg/kg body weight  
Method: OECD Test Guideline 421  
Result: Not classified  
GLP: yes

### Target Organ Systemic Toxicant - Single exposure

Target Organ Systemic Toxicant - Single exposure : No data is available on the product itself.

### Target Organ Systemic Toxicant - Repeated exposure

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Target Organ Systemic : Species: Rat, male and female  
Toxicant - Repeated Application Route: Oral  
exposure NOAEL: 150 mg/kg  
Method: OECD Test Guideline 407

### Target Organ Systemic Toxicant - Repeated exposure

#### Aspiration hazard

Aspiration toxicity : No data is available on the product itself.

#### Phototoxicity

Phototoxicity : No data is available on the product itself.

**Further information** : no data available

## 11.2 Information on other hazards

### Endocrine disrupting properties

#### Product:

Assessment : 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.

#### **Further information**

#### Product:

Remarks : no data available

## SECTION 12. Ecological information

### 12.1 Toxicity

#### Product:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 1,09 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203  
GLP: yes

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 1,01 mg/l  
aquatic invertebrates Exposure time: 48 h  
Test Type: Immobilization  
Method: OECD Test Guideline 202

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GLP: yes

Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): 1,55 mg/l  
Exposure time: 72 h  
Test Type: Growth inhibition  
Method: OECD Test Guideline 201  
GLP: yes

NOEC (Desmodesmus subspicatus (green algae)): 0,123 mg/l  
Exposure time: 72 h  
Test Type: Growth inhibition  
Method: OECD Test Guideline 201  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,32 mg/l  
Exposure time: 21 d  
Method: OECD Test Guideline 211

Toxicity to microorganisms : EC50 : > 100 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209  
GLP: yes

### 12.2 Persistence and degradability

#### Product:

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 0 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301 F  
GLP: yes

Result: Inherently biodegradable.  
Biodegradation: 77 %  
Exposure time: 60 d  
Method: OECD Test Guideline 302 C  
GLP: yes

### 12.3 Bioaccumulative potential

no data available

### 12.4 Mobility in soil

#### Product:

Distribution among environmental compartments : log Koc: 3,3  
Method: OECD Test Guideline 121

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : This substance/mixture contains no components considered

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to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Endocrine disrupting properties

#### Product:

Assessment : 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

#### Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Toxic to aquatic life with long lasting effects.

## SECTION 13. Disposal considerations

### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

Dispose of in accordance with local regulations.

## SECTION 14. Transport information

### 14.1 UN number

ADR : UN 3082  
RID : UN 3082  
IMDG : UN 3082  
IATA : UN 3082

### 14.2 UN proper shipping name

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<b>ADR</b>	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (3-(4-isobutyl-2-methylphenyl)propanal)
<b>RID</b>	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (3-(4-isobutyl-2-methylphenyl)propanal)
<b>IMDG</b>	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (3-(4-isobutyl-2-methylphenyl)propanal)
<b>IATA</b>	:	Environmentally hazardous substance, liquid, n.o.s. (3-(4-isobutyl-2-methylphenyl)propanal)

### 14.3 Transport hazard class(es)

<b>ADR</b>	:	9
<b>RID</b>	:	9
<b>IMDG</b>	:	9
<b>IATA</b>	:	9

### 14.4 Packing group

<b>ADR</b>	:	III
<b>RID</b>	:	III
<b>IMDG</b>	:	III
<b>IATA</b>	:	III

### 14.5 Environmental hazards

<b>ADR</b>		
Environmentally hazardous	:	yes
<b>RID</b>		
Environmentally hazardous	:	yes
<b>IMDG</b>		
Marine pollutant	:	yes
<b>IATA (Passenger)</b>		
Environmentally hazardous	:	yes
<b>IATA (Cargo)</b>		
Environmentally hazardous	:	yes

### 14.6 Special precautions for user

<b>ADR</b>		
Tunnel restriction code	:	(-)
<b>IMDG</b>		
IMDG Code Segregation Group	:	None

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### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

## SECTION 15. Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : Neither banned nor restricted

Major Accident Hazard : ENVIRONMENTAL HAZARDS

Legislation E2  
Quantity 1: 200 t  
Quantity 2: 500 t

Water hazard class : WGK 3 highly hazardous to water  
(Germany) Classification according to AwSV, Annex 1 (4)

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance.

## SECTION 16. Other information

### Full list of Emergency response numbers worldwide.

	Country	Phone nr		Country	Phone nr
Europe	All Europe	+44 1235 239670	APAC	All East/South East Asia	+65 3158 1074
	France	+33 1 72 11 00 03		Sri Lanka	+65 3158 1195
	Germany	+49 89 220 61012		Taiwan	+886 2 8793 3212
	Spain	+34 91 114 2520		Japan	0120 015 230
	Italy	800 699 792		Indonesia	007 803 011 0293
	Netherlands	+31 10 713 8195		Malaysia	+60 3 6207 4347
	Turkey	0800 621 2139 +44 1235 239670		Thailand	001 800 120 666 751
	Norway	+47 2103 4452		India	+65 3158 1198 000 800 100 7479
	Greece	+30 21 1198 3182		Pakistan	+65 3158 1329
	Portugal	+351 30880 4750		Bangladesh	+65 3158 1200
	Denmark	+45 8988 2286		Philippines	+63 2 8231 2149

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	Sweden	+46 8 566 42573		Vietnam	+84 28 4458 2388
	Poland	+48 22 307 3690		Korea	+65 3158 1285
	Czech republic	+420 228 882 830		South Korea	+82 2 3479 8401
	Finland	+358 9 7479 0199		Australia	+61 2 8014 4558
Middle East/Africa	All Middle East/Africa	+44 1235 239671		New Zealand	+64 9 929 1483
	Bahrain and Middle East	+44 1235 239671		China	+86 532 8388 9090
	Africa/South Africa	+27 21 300 2732		Mexico	+52 55 5004 8763
NOAM	USA and Canada	+1 866 928 0789	LATAM	Brazil	+55 11 3197 5891
	USA and Canada	+1 215 207 0061		Chile	+56 2 2582 9336
	USA and Canada	+1 202 464 2554		Colombia	+57 1 508 7337
Global	Global	+44 1865 407333		Argentina	+54 11 5984 3690

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

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

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. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Information displayed in section 3 (Composition/information on ingredients) is additional information to understand the hazards of the product and ensure safe handling, storage and transportation. This information, including CAS numbers, is not meant to be used for registration, notification or any other purposes. Any additional information and documentation needed may be provided by Givaudan.

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## Annex

### Exposure Scenario

Number	Title
ES1	Formulation of fragrance compounds (mixing of fragrance substances into fragrance compounds)
ES2	Formulation of fragranced end-products (mixing of fragrance compounds into fragranced end-products)
ES3	Industrial end-use of washing and cleaning products
ES4	Professional end-use of washing and cleaning products
ES5	Professional end-use of polishes and wax blends
ES6	Consumer end-use of washing and cleaning products
ES7	Consumer end-use of air care products
ES8	Consumer end-use of biocides
ES9	Consumer end-use of polishes and wax blends
ES10	Consumer (and Professional) end-use of cosmetics

### 1. ES 1: Formulation or re-packing; Formulation of fragrance compounds (mixing of fragrance substances into fragrance compounds)

#### 1.1. Title section

ES name: GES 1; Formulation of fragrance compounds (mixing of fragrance substances into fragrance compounds)

Environment	
1: GES 1; Formulation of fragrance compounds (mixing of fragrance substances into fragrance compounds)	ERC 2
2: GES 2; Formulation of fragrance compounds (mixing of fragrance substances into fragrance compounds); Small scale; AISE SPERC 2.1.b.v1	ERC 2
Worker	
3: CS1; Transfer of substance or mixture (charging/discharging) at dedicated facilities; IFRA F-1	PROC 8b
4: CS2; Storage; IFRA F-2	PROC 1
5: CS3; Mixing operations; Closed systems; Filling of articles/equipment; With sample collection; IFRA F-3	PROC 3
6: CS4; Mixing operations; Open systems; Filling of articles/equipment; With sample collection; IFRA F-4	PROC 5
7: CS5; Laboratory activities; Use as laboratory reagent; IFRA F-5	PROC 15
8: CS6; Transfer of substance or mixture into small containers (dedicated filling line, including weighing); IFRA F-6	PROC 9
9: CS7; Equipment cleaning and maintenance; IFRA F-7	PROC 8a

#### 1.2. Conditions of use affecting exposure

##### 1.2.1. Control of environmental exposure: GES 1; Formulation of fragrance compounds (mixing of fragrance substances into fragrance compounds) (ERC 2)

Amount used, frequency and duration of use (or from service life)
Annual amount per site <= 14 tonnes/year
Daily amount per site <= 0.056 tonnes/day

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**Conditions and measures related to biological sewage treatment plant**

Municipal sewage treatment plant is assumed.

application of the STP sludge on agricultural soil; Yes

Assumed domestic sewage treatment plant flow; >=; 2E3; m3/day

**Other conditions affecting environmental exposure**

Receiving surface water flow >= 1.8E4 m3/day

**1.2.2. Control of environmental exposure: GES 2; Formulation of fragrance compounds (mixing of fragrance substances into fragrance compounds); Small scale; AISE SPERC 2.1.b.v1 (ERC 2)**

**Amount used, frequency and duration of use (or from service life)**

Daily amount per site <= 0.024 tonnes/day

Annual amount per site <= 6 tonnes/year

**Conditions and measures related to biological sewage treatment plant**

Municipal sewage treatment plant is assumed.

Assumed domestic sewage treatment plant flow; >=; 2E3; m3/day

application of the STP sludge on agricultural soil; Yes

**Other conditions affecting environmental exposure**

Receiving surface water flow >= 1.8E4 m3/day

**1.2.3. Control of worker exposure**

**Conditions of use applicable to all contributing scenarios**

**Product (article) characteristics**

Liquid

**Technical and organisational conditions and measures**

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.; Ensure regular inspection, cleaning and maintenance of equipment and machines.; Clear spills immediately.; Ensure daily cleaning of the equipment.

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

Use suitable eye protection.

**Other conditions affecting workers exposure**

Body parts potentially exposed; One hand face only (240 cm2)

Indoor use

Assumes process temperature up to 40 °C

**Specific conditions of use per contributing scenario**

Contributing scenario	Specific conditions of use
<b>CS1; Transfer of substance or mixture (charging/discharging) at dedicated facilities; IFRA F-1 (PROC 8b)</b>	Covers concentrations up to 25 % Covers use up to 1 h/day Room ventilation; Basic; Up to 3 air change per hour Provide enclosing hood with very high effectiveness (such as fume cupboard) or effective ventilation by spray booth according to EN 16985. Ensure effectiveness is at least 95%. Respiratory protection; No. Wear chemically resistant gloves (tested to EN374) in combination with specific activity training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS.
<b>CS2; Storage; IFRA F-2 (PROC 1)</b>	Covers concentrations up to 0 % Covers use up to 1 h/day Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Local exhaust ventilation; No.

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	Respiratory protection; No. Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS.
<b>CS3; Mixing operations; Closed systems; Filling of articles/equipment; With sample collection; IFRA F-3 (PROC 3)</b>	Covers concentrations up to 100 % Covers use up to 4 h/day Room ventilation; Basic; Up to 3 air change per hour Provide specifically designed and maintained LEV (fixed capturing hood type, on-tool extraction or enclosing hood type). Ensure effectiveness is at least 90% Wear a respirator which reduces the air impurities by at least a factor of 10 (APF >= 10). For further specification, refer to section 8 of the SDS Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS.
<b>CS4; Mixing operations; Open systems; Filling of articles/equipment; With sample collection; IFRA F-4 (PROC 5)</b>	Covers concentrations up to 100 % Covers use up to 4 h/day Provide a good standard of controlled ventilation (5 to 10 air changes per hour). Provide specifically designed and maintained LEV (fixed capturing hood type, on-tool extraction or enclosing hood type). Ensure effectiveness is at least 90% Wear a respirator which reduces the air impurities by at least a factor of 10 (APF >= 10). For further specification, refer to section 8 of the SDS Wear chemically resistant gloves (tested to EN374) in combination with specific activity training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS.
<b>CS5; Laboratory activities; Use as laboratory reagent; IFRA F-5 (PROC 15)</b>	Covers concentrations up to 100 % Covers use up to 0.25 h/day Room ventilation; Basic; Up to 3 air change per hour Provide specifically designed and maintained LEV (fixed capturing hood type, on-tool extraction or enclosing hood type). Ensure effectiveness is at least 90% Respiratory protection; No. Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS.
<b>CS6; Transfer of substance or mixture into small containers (dedicated filling line, including weighing); IFRA F-6 (PROC 9)</b>	Covers concentrations up to 25 % Covers use up to 1 h/day Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Provide specifically designed and maintained LEV (fixed capturing hood type, on-tool extraction or enclosing hood type). Ensure effectiveness is at least 90% Respiratory protection; No. Wear chemically resistant gloves (tested to EN374) in combination with specific activity training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS.
<b>CS7; Equipment cleaning and maintenance; IFRA F-7 (PROC 8a)</b>	Covers concentrations up to 25 % Covers use up to 4 h/day Provide a good standard of controlled ventilation (5 to 10 air changes per hour). Provide specifically designed and maintained LEV (fixed capturing hood type, on-tool extraction or enclosing hood type). Ensure effectiveness is at least 90% Wear a respirator which reduces the air impurities by at least a factor of 10 (APF >= 10). For further specification, refer to section 8 of the SDS Wear chemically resistant gloves (tested to EN374) in combination with specific activity training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS.

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

#### 1.3.1. Environmental release and exposure: GES 1; Formulation of fragrance compounds (mixing of fragrance substances into fragrance compounds) (ERC 2)

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Release route	Release rate	Release estimation method
Water	0.112 kg/day	Estimated release factor
Air	1.4 kg/day	ERC
Soil	0 kg/day	Estimated release factor

Protection target	Exposure estimate	RCR
Fresh water	4.61E-3 mg/L (EUSES 2.1.2)	0.72
Sediment (freshwater)	0.936 mg/kg dw (EUSES 2.1.2)	0.72
Marine water	4.6E-4 mg/L (EUSES 2.1.2)	0.719
Sediment (marine water)	0.093 mg/kg dw (EUSES 2.1.2)	0.719
Sewage Treatment Plant	0.045 mg/L (EUSES 2.1.2)	0.045
Agricultural soil	0.073 mg/kg dw (EUSES 2.1.2)	0.287
Predator's prey (freshwater)	0.112 mg/kg ww (EUSES 2.1.2)	0.022
Predator's prey (marine water)	0.011 mg/kg ww (EUSES 2.1.2)	< 0.01
Top predator's prey (marine water)	3.07E-3 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (terrestrial)	0.045 mg/kg ww (EUSES 2.1.2)	< 0.01
Man via environment - Inhalation (systemic effects)	2.68E-4 mg/m³ (EUSES 2.1.2)	< 0.01
Man via environment - Oral	1.81E-3 mg/kg bw/day (EUSES 2.1.2)	< 0.01
Man via environment - combined routes		< 0.01

**1.3.2. Environmental release and exposure: GES 2; Formulation of fragrance compounds (mixing of fragrance substances into fragrance compounds); Small scale; AISE SPERC 2.1.b.v1 (ERC 2)**

Release route	Release rate	Release estimation method
Water	0.12 kg/day	Estimated release factor
Air	0.6 kg/day	ERC
Soil	0 kg/day	Estimated release factor

Protection target	Exposure estimate	RCR
Fresh water	4.92E-3 mg/L (EUSES 2.1.2)	0.77
Sediment (freshwater)	1 mg/kg dw (EUSES 2.1.2)	0.769
Marine water	4.92E-4 mg/L (EUSES 2.1.2)	0.768
Sediment (marine water)	0.1 mg/kg dw (EUSES 2.1.2)	0.768
Sewage Treatment Plant	0.048 mg/L (EUSES 2.1.2)	0.048
Agricultural soil	0.078 mg/kg dw (EUSES 2.1.2)	0.306
Predator's prey (freshwater)	0.119 mg/kg ww (EUSES 2.1.2)	0.024
Predator's prey (marine water)	0.012 mg/kg ww (EUSES 2.1.2)	< 0.01
Top predator's prey (marine water)	3.21E-3 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (terrestrial)	0.048 mg/kg ww (EUSES 2.1.2)	< 0.01
Man via environment - Inhalation (systemic effects)	1.15E-4 mg/m³ (EUSES 2.1.2)	< 0.01
Man via environment - Oral	1.31E-3 mg/kg bw/day (EUSES 2.1.2)	< 0.01
Man via environment - combined routes		< 0.01

**1.3.3. Worker exposure: CS1; Transfer of substance or mixture (charging/discharging) at dedicated facilities; IFRA F-1 (PROC 8b)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.255 mg/m³ (TRA Workers 3.0)	0.103
Dermal, systemic, long term	0.411 mg/kg bw/day (TRA Workers 3.0)	0.496
Dermal, local, long term	0.03 mg/cm² (TRA Workers 3.0)	0.168
Combined, systemic, long term		0.599

**1.3.4. Worker exposure: CS2; Storage; IFRA F-2 (PROC 1)**

Route of exposure and type of effects	Exposure estimate	RCR
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Inhalation, systemic, long term	1.19E-3 mg/m³ (TRA Workers 3.0)	< 0.01
Dermal, systemic, long term	3.4E-4 mg/kg bw/day (TRA Workers 3.0)	< 0.01
Dermal, local, long term	9.92E-5 mg/cm² (TRA Workers 3.0)	< 0.01
Combined, systemic, long term		< 0.01

**1.3.5. Worker exposure: CS3; Mixing operations; Closed systems; Filling of articles/equipment; With sample collection; IFRA F-3 (PROC 3)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.153 mg/m³ (TRA Workers 3.0)	0.062
Dermal, systemic, long term	0.069 mg/kg bw/day (TRA Workers 3.0)	0.083
Dermal, local, long term	0.02 mg/cm² (TRA Workers 3.0)	0.113
Combined, systemic, long term		0.145

**1.3.6. Worker exposure: CS4; Mixing operations; Open systems; Filling of articles/equipment; With sample collection; IFRA F-4 (PROC 5)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.077 mg/m³ (TRA Workers 3.0)	0.031
Dermal, systemic, long term	0.686 mg/kg bw/day (TRA Workers 3.0)	0.826
Dermal, local, long term	0.1 mg/cm² (TRA Workers 3.0)	0.56
Combined, systemic, long term		0.857

**1.3.7. Worker exposure: CS5; Laboratory activities; Use as laboratory reagent; IFRA F-5 (PROC 15)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.426 mg/m³ (TRA Workers 3.0)	0.172
Dermal, systemic, long term	0.034 mg/kg bw/day (TRA Workers 3.0)	0.041
Dermal, local, long term	9.92E-3 mg/cm² (TRA Workers 3.0)	0.056
Combined, systemic, long term		0.213

**1.3.8. Worker exposure: CS6; Transfer of substance or mixture into small containers (dedicated filling line, including weighing); IFRA F-6 (PROC 9)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.358 mg/m³ (TRA Workers 3.0)	0.145
Dermal, systemic, long term	0.206 mg/kg bw/day (TRA Workers 3.0)	0.248
Dermal, local, long term	0.03 mg/cm² (TRA Workers 3.0)	0.168
Combined, systemic, long term		0.393

**1.3.9. Worker exposure: CS7; Equipment cleaning and maintenance; IFRA F-7 (PROC 8a)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.092 mg/m³ (TRA Workers 3.0)	0.037
Dermal, systemic, long term	0.411 mg/kg bw/day (TRA Workers 3.0)	0.496
Dermal, local, long term	0.03 mg/cm² (TRA Workers 3.0)	0.168
Combined, systemic, long term		0.533

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

Scaling instructions: As the environmental release factor depends on site specific operational conditions and risk management measures, Downstream Users (DU) are advised to demonstrate that a safe use is given for the amounts used at their site. Scaling may be a suitable option in this case, (ECHA Guidance for downstream users and Guidance on the compilation of safety data sheets). Scaling is a comparison of linear input parameters and determinants between data presented in the Exposure Scenario (ES) and the data available from the Downstream User to determine the risk characterisation ratios (RCR) under the operational conditions of the DU (eg. quantity of substance used per year and site, emission fraction to water, number of emission days).

**2. ES 2: Formulation or re-packing; Formulation of fragranced end-products (mixing of fragrance compounds into fragranced end-products)**

**2.1. Title section**

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ES name: GES 2; Formulation of fragranced end-products (mixing of fragrance compounds into fragranced end-products)

### Environment

1: IFRA SG-1; AISE SPERC 2.1.a.v2; AISE SPERC 2.1.g.v2	ERC 2
2: IFRA SG-2; AISE SPERC 2.1.b.v2; AISE SPERC 2.1.h.v2	ERC 2
3: IFRA SG-3; AISE SPERC 2.1.c.v2; AISE SPERC 2.1.i.v2	ERC 2
4: IFRA SG-4; AISE SPERC 2.1.j.v2; Cosmetics Europe / AISE SPERC 2.3.a.v2; Cosmetics Europe SPERC 2.1.a.v2	ERC 2
5: IFRA SG-5; AISE SPERC 2.1.k.v2; Cosmetics Europe / AISE SPERC 2.3.b.v2; Cosmetics Europe SPERC 2.1.b.v2	ERC 2
6: IFRA SG-6; AISE SPERC 2.1.l.v2; Cosmetics Europe / AISE SPERC 2.3.c.v2; Cosmetics Europe SPERC 2.1.c.v2	ERC 2
7: IFRA SG-7; Cosmetics Europe SPERC 2.2.a.v2; Cosmetics Europe SPERC 2.2.c.v2	ERC 2
8: IFRA SG-8; Cosmetics Europe SPERC 2.1.d.v2; Cosmetics Europe SPERC 2.1.j.v2	ERC 2

### Worker

9: CS1; Transfer of substance or mixture (charging/discharging) at dedicated facilities; AISE M-6	PROC 8b
10: CS2; Laboratory activities; Use as laboratory reagent; AISE M-9	PROC 15
11: CS3; Storage; AISE M-1	PROC 1
12: CS4; Mixing operations; Closed systems; Filling of articles/equipment; With sample collection; AISE M-3	PROC 3
13: CS5; Mixing or blending in batch processes; Open systems; With sample collection; AISE M-5	PROC 5
14: CS6; Equipment cleaning and maintenance	PROC 8a
15: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions	PROC 2
16: CS7; Transfer of substance or mixture into small containers (dedicated filling line, including weighing); AISE M-7	PROC 9
17: CS8; Tableting, compression, extrusion or pelletisation; AISE M-8	PROC 14

## 2.2. Conditions of use affecting exposure

### 2.2.1. Control of environmental exposure: IFRA SG-1; AISE SPERC 2.1.a.v2; AISE SPERC 2.1.g.v2 (ERC 2)

Amount used, frequency and duration of use (or from service life)
Daily amount per site <= 0.075 tonnes/day
Annual amount per site <= 18.75 tonnes/year
Conditions and measures related to biological sewage treatment plant
Assumed domestic sewage treatment plant flow; >=; 2E3; m3/day
application of the STP sludge on agricultural soil; Yes
Municipal sewage treatment plant is assumed.
Other conditions affecting environmental exposure
Receiving surface water flow >= 1.8E4 m3/day

### 2.2.2. Control of environmental exposure: IFRA SG-2; AISE SPERC 2.1.b.v2; AISE SPERC 2.1.h.v2 (ERC 2)

Amount used, frequency and duration of use (or from service life)
Daily amount per site <= 0.028 tonnes/day
Annual amount per site <= 7 tonnes/year
Conditions and measures related to biological sewage treatment plant
Assumed domestic sewage treatment plant flow; >=; 2E3; m3/day
application of the STP sludge on agricultural soil; Yes
Municipal sewage treatment plant is assumed.
Other conditions affecting environmental exposure
Receiving surface water flow >= 1.8E4 m3/day

### 2.2.3. Control of environmental exposure: IFRA SG-3; AISE SPERC 2.1.c.v2; AISE SPERC

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### 2.1.i.v2 (ERC 2)

Amount used, frequency and duration of use (or from service life)
Daily amount per site <= 0.023 tonnes/day
Annual amount per site <= 5.75 tonnes/year
Conditions and measures related to biological sewage treatment plant
Assumed domestic sewage treatment plant flow; >=; 2E3; m3/day
application of the STP sludge on agricultural soil; Yes
Municipal sewage treatment plant is assumed.
Other conditions affecting environmental exposure
Receiving surface water flow >= 1.8E4 m3/day

### 2.2.4. Control of environmental exposure: IFRA SG-4; AISE SPERC 2.1.j.v2; Cosmetics Europe / AISE SPERC 2.3.a.v2; Cosmetics Europe SPERC 2.1.a.v2 (ERC 2)

Amount used, frequency and duration of use (or from service life)
Daily amount per site <= 0.021 tonnes/day
Annual amount per site <= 5.25 tonnes/year
Conditions and measures related to biological sewage treatment plant
Assumed domestic sewage treatment plant flow; >=; 2E3; m3/day
application of the STP sludge on agricultural soil; Yes
Municipal sewage treatment plant is assumed.
Other conditions affecting environmental exposure
Receiving surface water flow >= 1.8E4 m3/day

### 2.2.5. Control of environmental exposure: IFRA SG-5; AISE SPERC 2.1.k.v2; Cosmetics Europe / AISE SPERC 2.3.b.v2; Cosmetics Europe SPERC 2.1.b.v2 (ERC 2)

Amount used, frequency and duration of use (or from service life)
Daily amount per site <= 9E-3 tonnes/day
Annual amount per site <= 2.25 tonnes/year
Conditions and measures related to biological sewage treatment plant
Assumed domestic sewage treatment plant flow; >=; 2E3; m3/day
application of the STP sludge on agricultural soil; Yes
Municipal sewage treatment plant is assumed.
Other conditions affecting environmental exposure
Receiving surface water flow >= 1.8E4 m3/day

### 2.2.6. Control of environmental exposure: IFRA SG-6; AISE SPERC 2.1.l.v2; Cosmetics Europe / AISE SPERC 2.3.c.v2; Cosmetics Europe SPERC 2.1.c.v2 (ERC 2)

Amount used, frequency and duration of use (or from service life)
Daily amount per site <= 9E-3 tonnes/day
Annual amount per site <= 2.25 tonnes/year
Conditions and measures related to biological sewage treatment plant
Assumed domestic sewage treatment plant flow; >=; 2E3; m3/day
application of the STP sludge on agricultural soil; Yes
Municipal sewage treatment plant is assumed.
Other conditions affecting environmental exposure
Receiving surface water flow >= 1.8E4 m3/day

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### 2.2.7. Control of environmental exposure: IFRA SG-7; Cosmetics Europe SPERC 2.2.a.v2; Cosmetics Europe SPERC 2.2.c.v2 (ERC 2)

Amount used, frequency and duration of use (or from service life)
Daily amount per site <= 0.032 tonnes/day
Annual amount per site <= 8 tonnes/year
Conditions and measures related to biological sewage treatment plant
Assumed domestic sewage treatment plant flow; >=; 2E3; m3/day
application of the STP sludge on agricultural soil; Yes
Municipal sewage treatment plant is assumed.
Other conditions affecting environmental exposure
Receiving surface water flow >= 1.8E4 m3/day

### 2.2.8. Control of environmental exposure: IFRA SG-8; Cosmetics Europe SPERC 2.1.d.v2; Cosmetics Europe SPERC 2.1.j.v2 (ERC 2)

Amount used, frequency and duration of use (or from service life)
Daily amount per site <= 3E-3 tonnes/day
Annual amount per site <= 0.75 tonnes/year
Conditions and measures related to biological sewage treatment plant
Assumed domestic sewage treatment plant flow; >=; 2E3; m3/day
application of the STP sludge on agricultural soil; Yes
Municipal sewage treatment plant is assumed.
Other conditions affecting environmental exposure
Receiving surface water flow >= 1.8E4 m3/day

### 2.2.9. Control of worker exposure

#### Conditions of use applicable to all contributing scenarios

Product (article) characteristics
Liquid
Technical and organisational conditions and measures
Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.; Ensure regular inspection, cleaning and maintenance of equipment and machines.; Clear spills immediately.; Ensure daily cleaning of the equipment.
Conditions and measures related to personal protection, hygiene and health evaluation
Use suitable eye protection.
Other conditions affecting workers exposure
Indoor use
Assumes process temperature up to 40 °C

#### Specific conditions of use per contributing scenario

Contributing scenario	Specific conditions of use
CS1; Transfer of substance or mixture (charging/discharging) at dedicated facilities; AISE M-6 (PROC 8b)	Covers concentrations up to 25 % Covers use up to 1 h/day Room ventilation; Basic; Up to 3 air change per hour Provide enclosing hood with very high effectiveness (such as fume cupboard) or effective ventilation by spray booth according to EN 16985. Ensure effectiveness is at least 95%. Wear chemically resistant gloves (tested to EN374) in combination with specific activity training.; If skin contamination is expected to extend to other parts of the body, then these body parts should

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	also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Respiratory protection; No.
<b>CS2; Laboratory activities; Use as laboratory reagent; AISE M-9 (PROC 15)</b>	Covers concentrations up to 25 % Covers use up to 0.25 h/day Room ventilation; Basic; Up to 3 air change per hour Provide specifically designed and maintained LEV (fixed capturing hood type, on-tool extraction or enclosing hood type). Ensure effectiveness is at least 90% Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Respiratory protection; No.
<b>CS3; Storage; AISE M-1 (PROC 1)</b>	Covers concentrations up to 25 % Covers use up to 1 h/day Room ventilation; Basic; Up to 3 air change per hour Local exhaust ventilation; No. Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Respiratory protection; No.
<b>CS4; Mixing operations; Closed systems; Filling of articles/equipment; With sample collection; AISE M-3 (PROC 3)</b>	Covers concentrations up to 25 % Covers use up to 4 h/day Room ventilation; Basic; Up to 3 air change per hour Provide specifically designed and maintained LEV (fixed capturing hood type, on-tool extraction or enclosing hood type). Ensure effectiveness is at least 90% Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Respiratory protection; No.
<b>CS5; Mixing or blending in batch processes; Open systems; With sample collection; AISE M-5 (PROC 5)</b>	Covers concentrations up to 25 % Covers use up to 4 h/day Provide a good standard of controlled ventilation (5 to 10 air changes per hour). Provide specifically designed and maintained LEV (fixed capturing hood type, on-tool extraction or enclosing hood type). Ensure effectiveness is at least 90% Wear chemically resistant gloves (tested to EN374) in combination with specific activity training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Wear a respirator which reduces the air impurities by at least a factor of 10 (APF >= 10). For further specification, refer to section 8 of the SDS
<b>CS6; Equipment cleaning and maintenance (PROC 8a)</b>	Covers concentrations up to 1 % Covers use up to 4 h/day Room ventilation; Basic; Up to 3 air change per hour Provide specifically designed and maintained LEV (fixed capturing hood type, on-tool extraction or enclosing hood type). Ensure effectiveness is at least 90% Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Respiratory protection; No.
<b>Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC 2)</b>	Covers concentrations up to 25 % Covers use up to 1 h/day Room ventilation; Basic; Up to 3 air change per hour Provide specifically designed and maintained LEV (fixed capturing hood type, on-tool extraction or enclosing hood type). Ensure effectiveness is at least 90% Respiratory protection; No. Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS.

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<b>CS7; Transfer of substance or mixture into small containers (dedicated filling line, including weighing); AISE M-7 (PROC 9)</b>	<p>Covers concentrations up to 1 %</p> <p>Covers use up to 1 h/day</p> <p>Room ventilation; Basic; Up to 3 air change per hour</p> <p>Provide specifically designed and maintained LEV (fixed capturing hood type, on-tool extraction or enclosing hood type). Ensure effectiveness is at least 90%</p> <p>Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS.</p> <p>Respiratory protection; No.</p>
<b>CS8; Tableting, compression, extrusion or pelletisation; AISE M-8 (PROC 14)</b>	<p>Covers concentrations up to 1 %</p> <p>Covers use up to 8 h/day</p> <p>Room ventilation; Basic; Up to 3 air change per hour</p> <p>Provide specifically designed and maintained LEV (fixed capturing hood type, on-tool extraction or enclosing hood type). Ensure effectiveness is at least 90%</p> <p>Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS.</p> <p>Respiratory protection; No.</p>

## 2.3. Exposure estimation and reference to its source

## 2.3.1. Environmental release and exposure: IFRA SG-1; AISE SPERC 2.1.a.v2; AISE SPERC 2.1.g.v2 (ERC 2)

Release route	Release rate	Release estimation method
Water	7.5E-3 kg/day	Estimated release factor
Air	0 kg/day	Estimated release factor
Soil	0 kg/day	Estimated release factor

Protection target	Exposure estimate	RCR
Fresh water	4.63E-4 mg/L (EUSES 2.1.2)	0.072
Sediment (freshwater)	0.094 mg/kg dw (EUSES 2.1.2)	0.072
Marine water	4.55E-5 mg/L (EUSES 2.1.2)	0.071
Sediment (marine water)	9.24E-3 mg/kg dw (EUSES 2.1.2)	0.071
Sewage Treatment Plant	2.98E-3 mg/L (EUSES 2.1.2)	< 0.01
Agricultural soil	4.96E-3 mg/kg dw (EUSES 2.1.2)	0.019
Predator's prey (freshwater)	0.018 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (marine water)	1.72E-3 mg/kg ww (EUSES 2.1.2)	< 0.01
Top predator's prey (marine water)	1.18E-3 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (terrestrial)	3.24E-3 mg/kg ww (EUSES 2.1.2)	< 0.01
Man via environment - Inhalation (systemic effects)	1.02E-6 mg/m³ (EUSES 2.1.2)	< 0.01
Man via environment - Oral	8.16E-5 mg/kg bw/day (EUSES 2.1.2)	< 0.01
Man via environment - combined routes		< 0.01

## 2.3.2. Environmental release and exposure: IFRA SG-2; AISE SPERC 2.1.b.v2; AISE SPERC 2.1.h.v2 (ERC 2)

Release route	Release rate	Release estimation method
Water	0.028 kg/day	Estimated release factor
Air	0 kg/day	Estimated release factor
Soil	0 kg/day	Estimated release factor

Protection target	Exposure estimate	RCR
Fresh water	1.28E-3 mg/L (EUSES 2.1.2)	0.199
Sediment (freshwater)	0.259 mg/kg dw (EUSES 2.1.2)	0.199

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Marine water	1.27E-4 mg/L (EUSES 2.1.2)	0.198
Sediment (marine water)	0.026 mg/kg dw (EUSES 2.1.2)	0.198
Sewage Treatment Plant	0.011 mg/L (EUSES 2.1.2)	0.011
Agricultural soil	0.018 mg/kg dw (EUSES 2.1.2)	0.071
Predator's prey (freshwater)	0.036 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (marine water)	3.57E-3 mg/kg ww (EUSES 2.1.2)	< 0.01
Top predator's prey (marine water)	1.55E-3 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (terrestrial)	0.011 mg/kg ww (EUSES 2.1.2)	< 0.01
Man via environment - Inhalation (systemic effects)	1.05E-6 mg/m³ (EUSES 2.1.2)	< 0.01
Man via environment - Oral	2.31E-4 mg/kg bw/day (EUSES 2.1.2)	< 0.01
Man via environment - combined routes		< 0.01

**2.3.3. Environmental release and exposure: IFRA SG-3; AISE SPERC 2.1.c.v2; AISE SPERC 2.1.i.v2 (ERC 2)**

Release route	Release rate	Release estimation method
<b>Water</b>	0.046 kg/day	Estimated release factor
<b>Air</b>	0 kg/day	Estimated release factor
<b>Soil</b>	0 kg/day	Estimated release factor

Protection target	Exposure estimate	RCR
Fresh water	1.99E-3 mg/L (EUSES 2.1.2)	0.311
Sediment (freshwater)	0.404 mg/kg dw (EUSES 2.1.2)	0.311
Marine water	1.98E-4 mg/L (EUSES 2.1.2)	0.31
Sediment (marine water)	0.04 mg/kg dw (EUSES 2.1.2)	0.31
Sewage Treatment Plant	0.018 mg/L (EUSES 2.1.2)	0.018
Agricultural soil	0.03 mg/kg dw (EUSES 2.1.2)	0.117
Predator's prey (freshwater)	0.052 mg/kg ww (EUSES 2.1.2)	0.01
Predator's prey (marine water)	5.2E-3 mg/kg ww (EUSES 2.1.2)	< 0.01
Top predator's prey (marine water)	1.88E-3 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (terrestrial)	0.018 mg/kg ww (EUSES 2.1.2)	< 0.01
Man via environment - Inhalation (systemic effects)	1.08E-6 mg/m³ (EUSES 2.1.2)	< 0.01
Man via environment - Oral	3.62E-4 mg/kg bw/day (EUSES 2.1.2)	< 0.01
Man via environment - combined routes		< 0.01

**2.3.4. Environmental release and exposure: IFRA SG-4; AISE SPERC 2.1.j.v2; Cosmetics Europe / AISE SPERC 2.3.a.v2; Cosmetics Europe SPERC 2.1.a.v2 (ERC 2)**

Release route	Release rate	Release estimation method
<b>Water</b>	0.021 kg/day	Estimated release factor
<b>Air</b>	0 kg/day	Estimated release factor
<b>Soil</b>	0 kg/day	Estimated release factor

Protection target	Exposure estimate	RCR
Fresh water	9.98E-4 mg/L (EUSES 2.1.2)	0.156
Sediment (freshwater)	0.203 mg/kg dw (EUSES 2.1.2)	0.156
Marine water	9.91E-5 mg/L (EUSES 2.1.2)	0.155
Sediment (marine water)	0.02 mg/kg dw (EUSES 2.1.2)	0.155
Sewage Treatment Plant	8.35E-3 mg/L (EUSES 2.1.2)	< 0.01
Agricultural soil	0.014 mg/kg dw (EUSES 2.1.2)	0.054
Predator's prey (freshwater)	0.03 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (marine water)	2.94E-3 mg/kg ww (EUSES 2.1.2)	< 0.01
Top predator's prey (marine water)	1.43E-3 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (terrestrial)	8.55E-3 mg/kg ww (EUSES 2.1.2)	< 0.01
Man via environment - Inhalation (systemic effects)	1.04E-6 mg/m³ (EUSES 2.1.2)	< 0.01
Man via environment - Oral	1.8E-4 mg/kg bw/day (EUSES 2.1.2)	< 0.01

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Man via environment - combined routes	< 0.01
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**2.3.5. Environmental release and exposure: IFRA SG-5; AISE SPERC 2.1.k.v2; Cosmetics Europe / AISE SPERC 2.3.b.v2; Cosmetics Europe SPERC 2.1.b.v2 (ERC 2)**

Release route	Release rate	Release estimation method
<b>Water</b>	0.018 kg/day	Estimated release factor
<b>Air</b>	0 kg/day	Estimated release factor
<b>Soil</b>	0 kg/day	Estimated release factor

Protection target	Exposure estimate	RCR
Fresh water	8.79E-4 mg/L (EUSES 2.1.2)	0.137
Sediment (freshwater)	0.179 mg/kg dw (EUSES 2.1.2)	0.137
Marine water	8.72E-5 mg/L (EUSES 2.1.2)	0.136
Sediment (marine water)	0.018 mg/kg dw (EUSES 2.1.2)	0.136
Sewage Treatment Plant	7.16E-3 mg/L (EUSES 2.1.2)	< 0.01
Agricultural soil	0.012 mg/kg dw (EUSES 2.1.2)	0.046
Predator's prey (freshwater)	0.027 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (marine water)	2.67E-3 mg/kg ww (EUSES 2.1.2)	< 0.01
Top predator's prey (marine water)	1.37E-3 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (terrestrial)	7.37E-3 mg/kg ww (EUSES 2.1.2)	< 0.01
Man via environment - Inhalation (systemic effects)	1.04E-6 mg/m³ (EUSES 2.1.2)	< 0.01
Man via environment - Oral	1.58E-4 mg/kg bw/day (EUSES 2.1.2)	< 0.01
Man via environment - combined routes		< 0.01

**2.3.6. Environmental release and exposure: IFRA SG-6; AISE SPERC 2.1.l.v2; Cosmetics Europe / AISE SPERC 2.3.c.v2; Cosmetics Europe SPERC 2.1.c.v2 (ERC 2)**

Release route	Release rate	Release estimation method
<b>Water</b>	0.036 kg/day	Estimated release factor
<b>Air</b>	0 kg/day	Estimated release factor
<b>Soil</b>	0 kg/day	Estimated release factor

Protection target	Exposure estimate	RCR
Fresh water	1.59E-3 mg/L (EUSES 2.1.2)	0.249
Sediment (freshwater)	0.324 mg/kg dw (EUSES 2.1.2)	0.249
Marine water	1.59E-4 mg/L (EUSES 2.1.2)	0.248
Sediment (marine water)	0.032 mg/kg dw (EUSES 2.1.2)	0.248
Sewage Treatment Plant	0.014 mg/L (EUSES 2.1.2)	0.014
Agricultural soil	0.023 mg/kg dw (EUSES 2.1.2)	0.092
Predator's prey (freshwater)	0.043 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (marine water)	4.29E-3 mg/kg ww (EUSES 2.1.2)	< 0.01
Top predator's prey (marine water)	1.7E-3 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (terrestrial)	0.014 mg/kg ww (EUSES 2.1.2)	< 0.01
Man via environment - Inhalation (systemic effects)	1.06E-6 mg/m³ (EUSES 2.1.2)	< 0.01
Man via environment - Oral	2.89E-4 mg/kg bw/day (EUSES 2.1.2)	< 0.01
Man via environment - combined routes		< 0.01

**2.3.7. Environmental release and exposure: IFRA SG-7; Cosmetics Europe SPERC 2.2.a.v2; Cosmetics Europe SPERC 2.2.c.v2 (ERC 2)**

Release route	Release rate	Release estimation method
<b>Water</b>	0 kg/day	Estimated release factor
<b>Air</b>	0 kg/day	Estimated release factor

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<b>Soil</b>	0 kg/day	Estimated release factor
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Protection target	Exposure estimate	RCR
Fresh water	1.65E-4 mg/L (EUSES 2.1.2)	0.026
Sediment (freshwater)	0.034 mg/kg dw (EUSES 2.1.2)	0.026
Marine water	1.58E-5 mg/L (EUSES 2.1.2)	0.025
Sediment (marine water)	3.2E-3 mg/kg dw (EUSES 2.1.2)	0.025
Sewage Treatment Plant	0 mg/L (EUSES 2.1.2)	< 0.01
Agricultural soil	8.48E-5 mg/kg dw (EUSES 2.1.2)	< 0.01
Predator's prey (freshwater)	0.011 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (marine water)	1.05E-3 mg/kg ww (EUSES 2.1.2)	< 0.01
Top predator's prey (marine water)	1.05E-3 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (terrestrial)	2.84E-4 mg/kg ww (EUSES 2.1.2)	< 0.01
Man via environment - Inhalation (systemic effects)	1.01E-6 mg/m³ (EUSES 2.1.2)	< 0.01
Man via environment - Oral	2.69E-5 mg/kg bw/day (EUSES 2.1.2)	< 0.01
Man via environment - combined routes		< 0.01

**2.3.8. Environmental release and exposure: IFRA SG-8; Cosmetics Europe SPERC 2.1.d.v2; Cosmetics Europe SPERC 2.1.j.v2 (ERC 2)**

Release route	Release rate	Release estimation method
<b>Water</b>	0.06 kg/day	Estimated release factor
<b>Air</b>	0 kg/day	Estimated release factor
<b>Soil</b>	0 kg/day	Estimated release factor

Protection target	Exposure estimate	RCR
Fresh water	2.54E-3 mg/L (EUSES 2.1.2)	0.398
Sediment (freshwater)	0.517 mg/kg dw (EUSES 2.1.2)	0.398
Marine water	2.54E-4 mg/L (EUSES 2.1.2)	0.396
Sediment (marine water)	0.052 mg/kg dw (EUSES 2.1.2)	0.396
Sewage Treatment Plant	0.024 mg/L (EUSES 2.1.2)	0.024
Agricultural soil	0.039 mg/kg dw (EUSES 2.1.2)	0.153
Predator's prey (freshwater)	0.065 mg/kg ww (EUSES 2.1.2)	0.013
Predator's prey (marine water)	6.46E-3 mg/kg ww (EUSES 2.1.2)	< 0.01
Top predator's prey (marine water)	2.13E-3 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (terrestrial)	0.024 mg/kg ww (EUSES 2.1.2)	< 0.01
Man via environment - Inhalation (systemic effects)	1.1E-6 mg/m³ (EUSES 2.1.2)	< 0.01
Man via environment - Oral	4.65E-4 mg/kg bw/day (EUSES 2.1.2)	< 0.01
Man via environment - combined routes		< 0.01

**2.3.9. Worker exposure: CS1; Transfer of substance or mixture (charging/discharging) at dedicated facilities; AISE M-6 (PROC 8b)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.255 mg/m³ (TRA Workers 3.0)	0.103
Dermal, systemic, long term	0.411 mg/kg bw/day (TRA Workers 3.0)	0.496
Dermal, local, long term	0.03 mg/cm² (TRA Workers 3.0)	0.168
Combined, systemic, long term		0.599

**2.3.10. Worker exposure: CS2; Laboratory activities; Use as laboratory reagent; AISE M-9 (PROC 15)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.255 mg/m³ (TRA Workers 3.0)	0.103
Dermal, systemic, long term	0.02 mg/kg bw/day (TRA Workers 3.0)	0.025
Dermal, local, long term	5.95E-3 mg/cm² (TRA Workers 3.0)	0.033
Combined, systemic, long term		0.128

**2.3.11. Worker exposure: CS3; Storage; AISE M-1 (PROC 1)**

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Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.01 mg/m³ (TRA Workers 3.0)	< 0.01
Dermal, systemic, long term	2.04E-3 mg/kg bw/day (TRA Workers 3.0)	< 0.01
Dermal, local, long term	5.95E-4 mg/cm² (TRA Workers 3.0)	< 0.01
Combined, systemic, long term		< 0.01

**2.3.12. Worker exposure: CS4; Mixing operations; Closed systems; Filling of articles/equipment; With sample collection; AISE M-3 (PROC 3)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.919 mg/m³ (TRA Workers 3.0)	0.372
Dermal, systemic, long term	0.041 mg/kg bw/day (TRA Workers 3.0)	0.05
Dermal, local, long term	0.012 mg/cm² (TRA Workers 3.0)	0.068
Combined, systemic, long term		0.422

**2.3.13. Worker exposure: CS5; Mixing or blending in batch processes; Open systems; With sample collection; AISE M-5 (PROC 5)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.046 mg/m³ (TRA Workers 3.0)	0.019
Dermal, systemic, long term	0.411 mg/kg bw/day (TRA Workers 3.0)	0.496
Dermal, local, long term	0.06 mg/cm² (TRA Workers 3.0)	0.336
Combined, systemic, long term		0.514

**2.3.14. Worker exposure: CS6; Equipment cleaning and maintenance (PROC 8a)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.511 mg/m³ (TRA Workers 3.0)	0.207
Dermal, systemic, long term	0.137 mg/kg bw/day (TRA Workers 3.0)	0.165
Dermal, local, long term	1E-2 mg/cm² (TRA Workers 3.0)	0.056
Combined, systemic, long term		0.372

**2.3.15. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC 2)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.102 mg/m³ (TRA Workers 3.0)	0.041
Dermal, systemic, long term	0.082 mg/kg bw/day (TRA Workers 3.0)	0.099
Dermal, local, long term	0.012 mg/cm² (TRA Workers 3.0)	0.067
Combined, systemic, long term		0.14

**2.3.16. Worker exposure: CS7; Transfer of substance or mixture into small containers (dedicated filling line, including weighing); AISE M-7 (PROC 9)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.085 mg/m³ (TRA Workers 3.0)	0.034
Dermal, systemic, long term	0.069 mg/kg bw/day (TRA Workers 3.0)	0.083
Dermal, local, long term	0.01 mg/cm² (TRA Workers 3.0)	0.056
Combined, systemic, long term		0.117

**2.3.17. Worker exposure: CS8; Tabletting, compression, extrusion or pelletisation; AISE M-8 (PROC 14)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.426 mg/m³ (TRA Workers 3.0)	0.172
Dermal, systemic, long term	0.034 mg/kg bw/day (TRA Workers 3.0)	0.041
Dermal, local, long term	5E-3 mg/cm² (TRA Workers 3.0)	0.028
Combined, systemic, long term		0.214

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

Scaling instructions: As the environmental release factor depends on site specific operational conditions and risk management measures, Downstream Users (DU) are advised to demonstrate that a safe use is given for the amounts used at their site. Scaling may be a suitable option in this case, (ECHA Guidance for downstream users and Guidance on the compilation of safety data sheets). Scaling is a comparison of linear input parameters and determinants between data presented in the Exposure Scenario (ES) and the data available from the Downstream User to determine the risk characterisation ratios (RCR) under the operational conditions of the DU (eg. quantity of substance used per year and site,

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emission fraction to water, number of emission days).

### 3. ES 3: Use at industrial sites; Washing and Cleaning Products

#### 3.1. Title section

ES name: GES 3; Industrial end-use of washing and cleaning products

Product category: Washing and Cleaning Products (PC 35)

##### Environment

1: GES 3; Industrial end-use of washing and cleaning products

ERC 4

##### Worker

- |  |         |
|--|---------|
| 2: Industrial use of food beverage and pharmaceutical products; CS13-u; Food process cleaner. Cleaning In place (CIP) process; AISE-P801; CS17-u; Defoaming product. Automatic process; AISE-P805  | PROC 1  |
| 3: Industrial use of laundry products; CS1-u; Laundry detergent. Automatic process; AISE-P101; CS2-u; Conditioner (softner/starch). Automatic process; AISE-P104; CS3-u; Laundry aid (gasing). Automatic process; AISE-P107; CS4-u; Laundry aid (non-gasing). Automatic process; AISE-P110   | PROC 2  |
| 4: Industrial use; Dedicated equipment; Pharmaceuticals; CS21-u; Disinfection product. Semi-automatic process; AISE-P810   | PROC 4  |
| 5: Industrial use of vehicle cleaning products; CS5-u; Train cleaner. Semi-Automatic process; AISE-P707; CS6-u; Aeroplane cleaner. Semi-Automatic process; AISE-P708; CS7-u; Car wash product. Semi-Automatic process; AISE-P709; CS10-u; Dewaxing product. Semi-Automatic process; AISE-P712; CS14-u; Food process cleaner. Semi closed cleaning process; AISE-P802   | PROC 4  |
| 6: Industrial use of water treatment products; CS24-u; Preservation and sanitation agent . Drink and pool water; AISE-P904; CS23-u; Sanitation agent. Waste water; AISE-P905   | PROC 4  |
| 7: Industrial use of vehicle cleaning products; CS8-u; Car wash product. Spray and rinse process; AISE-P710  | PROC 7  |
| 8: Industrial use of vehicle cleaning products; CS12-u1; Car wash product. Spray and wipe manual process; AISE-P711; CS9-u1; Boat cleaner. Spray and wipe manual process; AISE-P714  | PROC 7  |
| 9: Industrial use of food beverage and pharmaceutical products; CS18-u; Foam cleaner. Semi-Automatic with venting process; AISE-P806   | PROC 7  |
| 10: Industrial use of food beverage and pharmaceutical products; CS15-u; Chain maintenance product. Automatic spray process; AISE-P803; CS19-u; Foam cleaner. Semi-Automatic without venting process; AISE-P807; CS22-u; Animal housing care. Semi-Automatic process; AISE-P809; CS20-u; Disinfection product. Fogging and gassing Semi-automatic process; AISE-P811   | PROC 7  |
| 11: Industrial use of façade/surface cleaning products; CS25-u; Façade/surface cleaner. High pressure process; AISE-P906; CS26-u; Façade/surface cleaner. Medium pressure process; AISE-P907   | PROC 7  |
| 12: Industrial use of laundry products; CS1-p; Laundry detergent. Automatic process; AISE-P101; CS2-p; Conditioner (softner/starch). Automatic process; AISE-P104; CS3-p; Laundry aid (gasing). Automatic process; AISE-P107; CS4-p; Laundry aid (non-gasing). Automatic process; AISE-P110; CS13-p; Industrial use of food beverage and pharmaceutical products; AISE-P801; CS14-p; Food process cleaner. Cleaning In place (CIP) process; AISE-P802; CS15-p; Chain maintenance product. Automatic spray process; AISE-P803; CS17-p; Defoaming product. Automatic process; AISE-P805  | PROC 8b |
| 13: Industrial use of water treatment products; CS23-p; Preservation and sanitation agent . Drink and pool water; AISE-P904; CS24-p; Sanitation agent. Waste water; AISE-P905; Industrial use of façade/surface cleaning products; CS25-p; Façade/surface cleaner. High pressure process; AISE-P906; CS26-p; Façade/surface cleaner. Medium pressure process; AISE-P907  | PROC 8b |
| 14: Industrial use of vehicle cleaning products; CS5-p; Train cleaner. Semi-Automatic process; AISE-P707; CS6-p; Aeroplane cleaner. Semi-Automatic process; AISE-P708; CS7-p; Car wash product. Semi-Automatic process; AISE-P709; CS8-p; Car wash product. Spray and rinse process; AISE-P710; CS10-p; Dewaxing product. Semi-Automatic process; AISE-P712; Industrial use of food beverage and pharmaceutical products; CS19-p; Foam cleaner. Semi-Automatic without venting process; AISE-P807; CS22-p; Disinfection product. Fogging and gassing Semi-automatic process; AISE-P811 | PROC 8b |
| 15: Industrial use of vehicle cleaning products; CS9-p; Car wash product. Spray and wipe manual process; AISE-P711; CS11-p; Boat cleaner. Manual process; AISE-P713; CS12-p; Boat cleaner. Spray and wipe manual process; AISE-P714  | PROC 8b |
| 16: Industrial use of food beverage and pharmaceutical products; CS20-p; Animal housing care. Semi-Automatic process; AISE-P809; CS21-p; Disinfection product. Semi-automatic process; AISE-P810   | PROC 8b |
| 17: Industrial use of food beverage and pharmaceutical products; CS18-p; Foam cleaner. Semi-Automatic with venting process; AISE-P806  | PROC 8b |
| 18: Industrial use of vehicle cleaning products; CS9-u2; Car wash product. Spray and wipe manual process; AISE-P711; CS12-u2; Boat cleaner. Manual process; AISE-P713; CS11-u; Boat cleaner. Spray and wipe manual   | PROC 10 |

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process; AISE-P714

19: Industrial use of food beverage and pharmaceutical products; CS16-u; Chain maintenance product. Automatic PROC 13  
drip and brush process; AISE-P804

### 3.2. Conditions of use affecting exposure

#### 3.2.1. Control of environmental exposure: GES 3; Industrial end-use of washing and cleaning products (ERC 4)

#### 3.2.2. Control of worker exposure

##### Conditions of use applicable to all contributing scenarios

Product (article) characteristics
Liquid
Covers concentrations up to 1 %
Technical and organisational conditions and measures
Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.; Ensure regular inspection, cleaning and maintenance of equipment and machines.; Clear spills immediately.; Ensure daily cleaning of the equipment.
Conditions and measures related to personal protection, hygiene and health evaluation
Use suitable eye protection.
Other conditions affecting workers exposure
Assumes process temperature up to 40 °C

##### Specific conditions of use per contributing scenario

Contributing scenario	Specific conditions of use
Industrial use of food beverage and pharmaceutical products; CS13-u; Food process cleaner. Cleaning In place (CIP) process; AISE-P801; CS17-u; Defoaming product. Automatic process; AISE-P805 (PROC 1)	Covers use up to 8 h/day Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Local exhaust ventilation; No. Respiratory protection; No. Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Body parts potentially exposed; One hand face only (240 cm2) Indoor use
Industrial use of laundry products; CS1-u; Laundry detergent. Automatic process; AISE-P101; CS2-u; Conditioner (softener/starch). Automatic process; AISE-P104; CS3-u; Laundry aid (gasing). Automatic process; AISE-P107; CS4-u; Laundry aid (non-gasing). Automatic process; AISE-P110 (PROC 2)	Covers use up to 8 h/day Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Local exhaust ventilation; No. Respiratory protection; No. Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Body parts potentially exposed; Two hands face only (480 cm2) Indoor use
Industrial use; Dedicated equipment; Pharmaceuticals; CS21-u; Disinfection product. Semi-automatic process; AISE-P810 (PROC 4)	Covers use up to 4 h/day Room ventilation; Basic; Up to 3 air change per hour Provide specifically designed and maintained LEV (fixed capturing hood type, on-tool extraction or enclosing hood type). Ensure effectiveness is at least 90% Respiratory protection; No. Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Body parts potentially exposed; Two hands face only (480 cm2) Indoor use

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<b>Industrial use of vehicle cleaning products; CS5-u; Train cleaner. Semi-Automatic process; AISE-P707; CS6-u; Aeroplane cleaner. Semi-Automatic process; AISE-P708; CS7-u; Car wash product. Semi-Automatic process; AISE-P709; CS10-u; Dewaxing product. Semi-Automatic process; AISE-P712; CS14-u; Food process cleaner. Semi closed cleaning process; AISE-P802 (PROC 4)</b>	<p>Covers use up to 8 h/day Room ventilation; Basic; Up to 3 air change per hour Local exhaust ventilation; No. Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Wear a respirator which reduces the air impurities by at least a factor of 10 (APF &gt;= 10). For further specification, refer to section 8 of the SDS Body parts potentially exposed; Two hands face only (480 cm2) Outdoor use</p>
<b>Industrial use of water treatment products; CS24-u; Preservation and sanitation agent . Drink and pool water; AISE-P904; CS23-u; Sanitation agent. Waste water; AISE-P905 (PROC 4)</b>	<p>Covers use up to 8 h/day Room ventilation; Basic; Up to 3 air change per hour Local exhaust ventilation; No. Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Wear a respirator which reduces the air impurities by at least a factor of 10 (APF &gt;= 10). For further specification, refer to section 8 of the SDS Body parts potentially exposed; Two hands face only (480 cm2) Outdoor use</p>
<b>Industrial use of vehicle cleaning products; CS8-u; Car wash product. Spray and rinse process; AISE-P710 (PROC 7)</b>	<p>Covers use up to 1 h/day Room ventilation; Basic; Up to 3 air change per hour Local exhaust ventilation; No. Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Wear a respirator which reduces the air impurities by at least a factor of 20 (APF &gt;= 20). For further specification, refer to section 8 of the SDS Body parts potentially exposed; Assumes 2 hands and forearms (1500 cm2) Outdoor use</p>
<b>Industrial use of vehicle cleaning products; CS12-u1; Car wash product. Spray and wipe manual process; AISE-P711; CS9-u1; Boat cleaner. Spray and wipe manual process; AISE-P714 (PROC 7)</b>	<p>Covers use up to 1 h/day Room ventilation; Basic; Up to 3 air change per hour Local exhaust ventilation; No. Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Wear a respirator which reduces the air impurities by at least a factor of 20 (APF &gt;= 20). For further specification, refer to section 8 of the SDS Body parts potentially exposed; Assumes 2 hands and forearms (1500 cm2) Outdoor use</p>
<b>Industrial use of food beverage and pharmaceutical products; CS18-u; Foam cleaner. Semi-Automatic with venting process; AISE-P806 (PROC 7)</b>	<p>Covers use up to 8 h/day Room ventilation; Basic; Up to 3 air change per hour Provide enclosing hood with very high effectiveness (such as fume cupboard) or effective ventilation by spray booth according to EN 16985. Ensure effectiveness is at least 95%. Wear a respirator which reduces the air impurities by at least a factor of 10 (APF &gt;= 10). For further specification, refer to section 8 of the SDS Wear chemically resistant gloves (tested to EN374) in combination with specific activity training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Body parts potentially exposed; Assumes 2 hands and forearms (1500 cm2) Indoor use</p>
<b>Industrial use of food beverage and pharmaceutical products; CS15-u; Chain maintenance product. Automatic spray process; AISE-P803; CS19-u; Foam cleaner. Semi-Automatic without venting process; AISE-P807; CS22-u;</b>	<p>Covers use up to 8 h/day Provide a good standard of controlled ventilation (5 to 10 air changes per hour). Local exhaust ventilation; No. Wear a respirator which reduces the air impurities by at least a factor of 20 (APF &gt;= 20). For further specification, refer to section 8 of the SDS Wear chemically resistant gloves (tested to EN374) in combination with specific activity training.; If</p>

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Animal housing care. Semi-Automatic process; AISE-P809; CS20-u; Disinfection product. Fogging and gassing Semi-automatic process; AISE-P811 (PROC 7)	skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Body parts potentially exposed; Assumes 2 hands and forearms (1500 cm2) Indoor use
Industrial use of façade/surface cleaning products; CS25-u; Façade/surface cleaner. High pressure process; AISE-P906; CS26-u; Façade/surface cleaner. Medium pressure process; AISE-P907 (PROC 7)	Covers use up to 8 h/day Room ventilation; Basic; Up to 3 air change per hour Local exhaust ventilation; No. Wear a respirator which reduces the air impurities by at least a factor of 20 (APF >= 20). For further specification, refer to section 8 of the SDS Wear chemically resistant gloves (tested to EN374) in combination with specific activity training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Body parts potentially exposed; Assumes 2 hands and forearms (1500 cm2) Outdoor use
Industrial use of laundry products; CS1-p; Laundry detergent. Automatic process; AISE-P101; CS2-p; Conditioner (softener/starch). Automatic process; AISE-P104; CS3-p; Laundry aid (gasing). Automatic process; AISE-P107; CS4-p; Laundry aid (non-gasing). Automatic process; AISE-P110; CS13-p; Industrial use of food beverage and pharmaceutical products; AISE-P801; CS14-p; Food process cleaner. Cleaning In place (CIP) process; AISE-P802; CS15-p; Chain maintenance product. Automatic spray process; AISE-P803; CS17-p; Defoaming product. Automatic process; AISE-P805 (PROC 8b)	Covers use up to 0.25 h/day Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Local exhaust ventilation; No. Respiratory protection; No. Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Body parts potentially exposed; Two hands (960 cm2) Indoor use
Industrial use of water treatment products; CS23-p; Preservation and sanitation agent . Drink and pool water; AISE-P904; CS24-p; Sanitation agent. Waste water; AISE-P905; Industrial use of façade/surface cleaning products; CS25-p; Façade/surface cleaner. High pressure process; AISE-P906; CS26-p; Façade/surface cleaner. Medium pressure process; AISE-P907 (PROC 8b)	Covers use up to 0.25 h/day Room ventilation; Basic; Up to 3 air change per hour Local exhaust ventilation; No. Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Respiratory protection; No. Body parts potentially exposed; Two hands (960 cm2) Outdoor use
Industrial use of vehicle cleaning products; CS5-p; Train cleaner. Semi-Automatic process; AISE-P707; CS6-p; Aeroplane cleaner. Semi-Automatic process; AISE-P708; CS7-p; Car wash product. Semi-Automatic process; AISE-P709; CS8-p; Car wash product. Spray and rinse process; AISE-P710; CS10-p; Dewaxing product. Semi-Automatic process; AISE-P712; Industrial use of food beverage and pharmaceutical products; CS19-p; Foam cleaner. Semi-Automatic without venting process; AISE-P807; CS22-p; Disinfection product. Fogging and gassing Semi-automatic process; AISE-	Covers use up to 1 h/day Room ventilation; Basic; Up to 3 air change per hour Local exhaust ventilation; No. Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Respiratory protection; No. Body parts potentially exposed; Two hands (960 cm2) Outdoor use

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P811 (PROC 8b)	
Industrial use of vehicle cleaning products; CS9-p; Car wash product. Spray and wipe manual process; AISE-P711; CS11-p; Boat cleaner. Manual process; AISE-P713; CS12-p; Boat cleaner. Spray and wipe manual process; AISE-P714 (PROC 8b)	Covers use up to 1 h/day Room ventilation; Basic; Up to 3 air change per hour Local exhaust ventilation; No. Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Respiratory protection; No. Body parts potentially exposed; Two hands (960 cm2) Outdoor use
Industrial use of food beverage and pharmaceutical products; CS20-p; Animal housing care. Semi-Automatic process; AISE-P809; CS21-p; Disinfection product. Semi-automatic process; AISE-P810 (PROC 8b)	Covers use up to 1 h/day Room ventilation; Basic; Up to 3 air change per hour Local exhaust ventilation; No. Respiratory protection; No. Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Body parts potentially exposed; Two hands (960 cm2) Indoor use
Industrial use of food beverage and pharmaceutical products; CS18-p; Foam cleaner. Semi-Automatic with venting process; AISE-P806 (PROC 8b)	Covers use up to 1 h/day Room ventilation; Basic; Up to 3 air change per hour Provide enclosing hood with very high effectiveness (such as fume cupboard) or effective ventilation by spray booth according to EN 16985. Ensure effectiveness is at least 95%. Respiratory protection; No. Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Body parts potentially exposed; Two hands (960 cm2) Indoor use
Industrial use of vehicle cleaning products; CS9-u2; Car wash product. Spray and wipe manual process; AISE-P711; CS12-u2; Boat cleaner. Manual process; AISE-P713; CS11-u; Boat cleaner. Spray and wipe manual process; AISE-P714 (PROC 10)	Covers use up to 8 h/day Room ventilation; Basic; Up to 3 air change per hour Local exhaust ventilation; No. Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Wear a respirator which reduces the air impurities by at least a factor of 10 (APF >= 10). For further specification, refer to section 8 of the SDS Body parts potentially exposed; Two hands (960 cm2) Outdoor use
Industrial use of food beverage and pharmaceutical products; CS16-u; Chain maintenance product. Automatic drip and brush process; AISE-P804 (PROC 13)	Covers use up to 8 h/day Room ventilation; Basic; Up to 3 air change per hour Provide specifically designed and maintained LEV (fixed capturing hood type, on-tool extraction or enclosing hood type). Ensure effectiveness is at least 90% Respiratory protection; No. Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Body parts potentially exposed; Two hands face only (480 cm2) Indoor use

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

#### 3.3.1. Environmental release and exposure: GES 3; Industrial end-use of washing and cleaning products (ERC 4)

Release route	Release rate	Release estimation method
Water	- kg/day	ERC

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Air	- kg/day	ERC
Soil	- kg/day	ERC

**3.3.2. Worker exposure: Industrial use of food beverage and pharmaceutical products; CS13-u; Food process cleaner. Cleaning In place (CIP) process; AISE-P801; CS17-u; Defoaming product. Automatic process; AISE-P805 (PROC 1)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	5.96E-3 mg/m <sup>3</sup> (TRA Workers 3.0)	< 0.01
Dermal, systemic, long term	3.4E-4 mg/kg bw/day (TRA Workers 3.0)	< 0.01
Dermal, local, long term	9.92E-5 mg/cm <sup>2</sup> (TRA Workers 3.0)	< 0.01
Combined, systemic, long term		< 0.01

**3.3.3. Worker exposure: Industrial use of laundry products; CS1-u; Laundry detergent. Automatic process; AISE-P101; CS2-u; Conditioner (softner/starch). Automatic process; AISE-P104; CS3-u; Laundry aid (gasing). Automatic process; AISE-P107; CS4-u; Laundry aid (non-gasing). Automatic process; AISE-P110 (PROC 2)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.596 mg/m <sup>3</sup> (TRA Workers 3.0)	0.241
Dermal, systemic, long term	0.014 mg/kg bw/day (TRA Workers 3.0)	0.017
Dermal, local, long term	2E-3 mg/cm <sup>2</sup> (TRA Workers 3.0)	0.011
Combined, systemic, long term		0.258

**3.3.4. Worker exposure: Industrial use; Dedicated equipment; Pharmaceuticals; CS21-u; Disinfection product. Semi-automatic process; AISE-P810 (PROC 4)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.255 mg/m <sup>3</sup> (TRA Workers 3.0)	0.103
Dermal, systemic, long term	0.069 mg/kg bw/day (TRA Workers 3.0)	0.083
Dermal, local, long term	0.01 mg/cm <sup>2</sup> (TRA Workers 3.0)	0.056
Combined, systemic, long term		0.186

**3.3.5. Worker exposure: Industrial use of vehicle cleaning products; CS5-u; Train cleaner. Semi-Automatic process; AISE-P707; CS6-u; Aeroplane cleaner. Semi-Automatic process; AISE-P708; CS7-u; Car wash product. Semi-Automatic process; AISE-P709; CS10-u; Dewaxing product. Semi-Automatic process; AISE-P712; CS14-u; Food process cleaner. Semi closed cleaning process; AISE-P802 (PROC 4)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.298 mg/m <sup>3</sup> (TRA Workers 3.0)	0.121
Dermal, systemic, long term	0.069 mg/kg bw/day (TRA Workers 3.0)	0.083
Dermal, local, long term	0.01 mg/cm <sup>2</sup> (TRA Workers 3.0)	0.056
Combined, systemic, long term		0.203

**3.3.6. Worker exposure: Industrial use of water treatment products; CS24-u; Preservation and sanitation agent . Drink and pool water; AISE-P904; CS23-u; Sanitation agent. Waste water; AISE-P905 (PROC 4)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.298 mg/m <sup>3</sup> (TRA Workers 3.0)	0.121
Dermal, systemic, long term	0.069 mg/kg bw/day (TRA Workers 3.0)	0.083
Dermal, local, long term	0.01 mg/cm <sup>2</sup> (TRA Workers 3.0)	0.056
Combined, systemic, long term		0.203

**3.3.7. Worker exposure: Industrial use of vehicle cleaning products; CS8-u; Car wash product. Spray and rinse process; AISE-P710 (PROC 7)**

Route of exposure and type of effects	Exposure estimate	RCR
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Inhalation, systemic, long term	0.596 mg/m <sup>3</sup> (TRA Workers 3.0)	0.241
Dermal, systemic, long term	0.429 mg/kg bw/day (TRA Workers 3.0)	0.516
Dermal, local, long term	0.02 mg/cm <sup>2</sup> (TRA Workers 3.0)	0.112
Combined, systemic, long term		0.758

**3.3.8. Worker exposure: Industrial use of vehicle cleaning products; CS12-u1; Car wash product. Spray and wipe manual process; AISE-P711; CS9-u1; Boat cleaner. Spray and wipe manual process; AISE-P714 (PROC 7)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.596 mg/m <sup>3</sup> (TRA Workers 3.0)	0.241
Dermal, systemic, long term	0.429 mg/kg bw/day (TRA Workers 3.0)	0.516
Dermal, local, long term	0.02 mg/cm <sup>2</sup> (TRA Workers 3.0)	0.112
Combined, systemic, long term		0.758

**3.3.9. Worker exposure: Industrial use of food beverage and pharmaceutical products; CS18-u; Foam cleaner. Semi-Automatic with venting process; AISE-P806 (PROC 7)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.426 mg/m <sup>3</sup> (TRA Workers 3.0)	0.172
Dermal, systemic, long term	0.214 mg/kg bw/day (TRA Workers 3.0)	0.258
Dermal, local, long term	0.01 mg/cm <sup>2</sup> (TRA Workers 3.0)	0.056
Combined, systemic, long term		0.431

**3.3.10. Worker exposure: Industrial use of food beverage and pharmaceutical products; CS15-u; Chain maintenance product. Automatic spray process; AISE-P803; CS19-u; Foam cleaner. Semi-Automatic without venting process; AISE-P807; CS22-u; Animal housing care. Semi-Automatic process; AISE-P809; CS20-u; Disinfection product. Fogging and gassing Semi-automatic process; AISE-P811 (PROC 7)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	1.277 mg/m <sup>3</sup> (TRA Workers 3.0)	0.517
Dermal, systemic, long term	0.214 mg/kg bw/day (TRA Workers 3.0)	0.258
Dermal, local, long term	0.01 mg/cm <sup>2</sup> (TRA Workers 3.0)	0.056
Combined, systemic, long term		0.775

**3.3.11. Worker exposure: Industrial use of façade/surface cleaning products; CS25-u; Façade/surface cleaner. High pressure process; AISE-P906; CS26-u; Façade/surface cleaner. Medium pressure process; AISE-P907 (PROC 7)**

Route of exposure and type of effects	Exposure estimate	RCR
Dermal, systemic, long term	0.214 mg/kg bw/day (TRA Workers 3.0)	0.258
Dermal, local, long term	0.01 mg/cm <sup>2</sup> (TRA Workers 3.0)	0.056

**3.3.12. Worker exposure: Industrial use of laundry products; CS1-p; Laundry detergent. Automatic process; AISE-P101; CS2-p; Conditioner (softener/starch). Automatic process; AISE-P104; CS3-p; Laundry aid (gasing). Automatic process; AISE-P107; CS4-p; Laundry aid (non-gasing). Automatic process; AISE-P110; CS13-p; Industrial use of food beverage and pharmaceutical products; AISE-P801; CS14-p; Food process cleaner. Cleaning In place (CIP) process; AISE-P802; CS15-p; Chain maintenance product. Automatic spray process; AISE-P803; CS17-p; Defoaming product. Automatic process; AISE-P805 (PROC 8b)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.298 mg/m <sup>3</sup> (TRA Workers 3.0)	0.121
Dermal, systemic, long term	0.137 mg/kg bw/day (TRA Workers 3.0)	0.165
Dermal, local, long term	1E-2 mg/cm <sup>2</sup> (TRA Workers 3.0)	0.056
Combined, systemic, long term		0.286

**3.3.13. Worker exposure: Industrial use of water treatment products; CS23-p; Preservation and sanitation agent . Drink and pool water; AISE-P904; CS24-p; Sanitation agent. Waste water;**

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**AISE-P905; Industrial use of façade/surface cleaning products; CS25-p; Façade/surface cleaner. High pressure process; AISE-P906; CS26-p; Façade/surface cleaner. Medium pressure process; AISE-P907 (PROC 8b)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.298 mg/m³ (TRA Workers 3.0)	0.121
Dermal, systemic, long term	0.137 mg/kg bw/day (TRA Workers 3.0)	0.165
Dermal, local, long term	1E-2 mg/cm² (TRA Workers 3.0)	0.056
Combined, systemic, long term		0.286

**3.3.14. Worker exposure: Industrial use of vehicle cleaning products; CS5-p; Train cleaner. Semi-Automatic process; AISE-P707; CS6-p; Aeroplane cleaner. Semi-Automatic process; AISE-P708; CS7-p; Car wash product. Semi-Automatic process; AISE-P709; CS8-p; Car wash product. Spray and rinse process; AISE-P710; CS10-p; Dewaxing product. Semi-Automatic process; AISE-P712; Industrial use of food beverage and pharmaceutical products; CS19-p; Foam cleaner. Semi-Automatic without venting process; AISE-P807; CS22-p; Disinfection product. Fogging and gassing Semi-automatic process; AISE-P811 (PROC 8b)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.596 mg/m³ (TRA Workers 3.0)	0.241
Dermal, systemic, long term	0.137 mg/kg bw/day (TRA Workers 3.0)	0.165
Dermal, local, long term	1E-2 mg/cm² (TRA Workers 3.0)	0.056
Combined, systemic, long term		0.406

**3.3.15. Worker exposure: Industrial use of vehicle cleaning products; CS9-p; Car wash product. Spray and wipe manual process; AISE-P711; CS11-p; Boat cleaner. Manual process; AISE-P713; CS12-p; Boat cleaner. Spray and wipe manual process; AISE-P714 (PROC 8b)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.596 mg/m³ (TRA Workers 3.0)	0.241
Dermal, systemic, long term	0.137 mg/kg bw/day (TRA Workers 3.0)	0.165
Dermal, local, long term	1E-2 mg/cm² (TRA Workers 3.0)	0.056
Combined, systemic, long term		0.406

**3.3.16. Worker exposure: Industrial use of food beverage and pharmaceutical products; CS20-p; Animal housing care. Semi-Automatic process; AISE-P809; CS21-p; Disinfection product. Semi-automatic process; AISE-P810 (PROC 8b)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.851 mg/m³ (TRA Workers 3.0)	0.345
Dermal, systemic, long term	0.137 mg/kg bw/day (TRA Workers 3.0)	0.165
Dermal, local, long term	1E-2 mg/cm² (TRA Workers 3.0)	0.056
Combined, systemic, long term		0.51

**3.3.17. Worker exposure: Industrial use of food beverage and pharmaceutical products; CS18-p; Foam cleaner. Semi-Automatic with venting process; AISE-P806 (PROC 8b)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.043 mg/m³ (TRA Workers 3.0)	0.017
Dermal, systemic, long term	0.137 mg/kg bw/day (TRA Workers 3.0)	0.165
Dermal, local, long term	1E-2 mg/cm² (TRA Workers 3.0)	0.056
Combined, systemic, long term		0.182

**3.3.18. Worker exposure: Industrial use of vehicle cleaning products; CS9-u2; Car wash product. Spray and wipe manual process; AISE-P711; CS12-u2; Boat cleaner. Manual process; AISE-P713; CS11-u; Boat cleaner. Spray and wipe manual process; AISE-P714 (PROC 10)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.596 mg/m³ (TRA Workers 3.0)	0.241
Dermal, systemic, long term	0.274 mg/kg bw/day (TRA Workers 3.0)	0.33

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Dermal, local, long term	0.02 mg/cm² (TRA Workers 3.0)	0.112
Combined, systemic, long term		0.572

### 3.3.19. Worker exposure: Industrial use of food beverage and pharmaceutical products; CS16-u; Chain maintenance product. Automatic drip and brush process; AISE-P804 (PROC 13)

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.851 mg/m³ (TRA Workers 3.0)	0.345
Dermal, systemic, long term	0.137 mg/kg bw/day (TRA Workers 3.0)	0.165
Dermal, local, long term	0.02 mg/cm² (TRA Workers 3.0)	0.112
Combined, systemic, long term		0.51

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

Guidance: The total tonnage of all end-uses for environmental exposure is covered under GES6. ERC4 is covered under ERC8. In accordance with IFRA REACH Exposure Scenarios for Fragrance Substances Version 2.1, 11th December 2012), the total tonnage under ERC4 can be considered under ERC8. This approach can be justified since the total volume for fragrance substances that is applied for industrial use is only a fraction of the volumes going to consumer and professional uses. Also the industrial end-use products are similar to those used by professionals and consumers and release will be to the waste water stream. In industrial settings normally additional RMMs are available in the form of on-site industrial sewage treatment plants. Therefore this approach can be considered as a worst case approach as only the municipal treatment plant is considered in wide-dispersive uses.

Scaling instructions: As the environmental release factor depends on site specific operational conditions and risk management measures, Downstream Users (DU) are advised to demonstrate that a safe use is given for the amounts used at their site. Scaling may be a suitable option in this case, (ECHA Guidance for downstream users and Guidance on the compilation of safety data sheets). Scaling is a comparison of linear input parameters and determinants between data presented in the Exposure Scenario (ES) and the data available from the Downstream User to determine the risk characterisation ratios (RCR) under the operational conditions of the DU (eg. quantity of substance used per year and site, emission fraction to water, number of emission days).

## 4. ES 4: Widespread use by professional workers; Washing and Cleaning Products

### 4.1. Title section

ES name: GES 4; Professional end-use of washing and cleaning products

Product category: Washing and Cleaning Products (PC 35)

Environment		
1: GES 4; Professional end-use of washing and cleaning products		ERC 8a
Worker		
2: Professional use of laundry products; CS1-u; Laundry detergent. Semi automatic process; AISE-P102; CS3-u; Conditioner (softner/starch). Semi automatic process; AISE-P105; CS4-u; Laundry aid (gasing). Semi automatic process; AISE-P108; CS5-u; Laundry aid (non-gasing). Semi automatic process; AISE-P111; Professional use of dishwashing products; CS10-u; Dishwash product. Semi-Automatic process; AISE-P203; CS11-u; Rinse aid. Automatic process; AISE-P204; Professional use of medical devices; CS48-u; Medical devices . Semi-automatic process; AISE-P1101		PROC 1
3: Professional use of dishwashing products; CS9-u; Dishwash product. Automatic process; AISE-P202		PROC 2
4: Professional use of laundry products; CS6-u; Laundry aid (non-gasing). Manual process; AISE-P112		PROC 4
5: Professional use of vehicle cleaning products; Semi-automated task; CS39-u; Car wash product. Semi-Automatic process; AISE-P701; CS42-u; Dewaxing product. Semi-Automatic process; AISE-P704		PROC 4
6: Professional use of laundry products; CS1-p; Laundry detergent. Semi automatic process; AISE-P102; CS3-p; Conditioner (softner/starch). Semi automatic process; AISE-P105; CS4-p; Laundry aid (gasing). Semi automatic process; AISE-P108; CS5-p; Laundry aid (non-gasing). Semi automatic process; AISE-P111; CS6-p; Laundry aid (non-gasing). Manual process; AISE-P112; Professional use of dishwashing products; CS10-p; Dishwash product. Semi-Automatic process; AISE-P203; CS11-p; Rinse aid. Automatic process; AISE-P204; Professional use of general surface cleaning products; CS20-p; Descaling agent. Dipping process; AISE-P309; Professional use of medical devices; CS48-p; Medical devices . Semi-automatic process; AISE-P1101; CS49-p; Medical devices . Dipping process; AISE-P1102		PROC 8a
7: Professional use of façade/surface cleaning products; CS46-p; Façade/surface cleaner. High pressure process; AISE-P901; CS47-p; Façade/surface cleaner. Medium pressure process; AISE-P902		PROC 8a
8: Professional use of dishwashing products; CS8-p; Dishwash product. Manual process; AISE-P201		PROC 8a
9: Professional use of floor care products; CS31-p; Floor cleaner. Manual process; AISE-P403; CS29-p; Floor		PROC 8a
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cleaner. Semi-Automatic process; AISE-P401; CS30-p; Floor cleaner. Spray and wipe manual process; AISE-P402; CS34-p; Carpet cleaner. Manual process; AISE-P409; CS35-p; Carpet cleaner. Semi-Automatic process; AISE-P410; Professional use of general surface cleaning products; CS12-p; General purpose cleaner. Manual process; AISE-P301; CS13-p; General purpose cleaner. Spray and wipe manual process; AISE-P302; CS14-p; Kitchen cleaner. Manual process; AISE-P303; CS15-p; Kitchen cleaner. Spray and wipe manual process; AISE-P304; CS16-p; Sanitary cleaner. Manual process; AISE-P305; CS17-p; Sanitary cleaner. Spray and wipe manual process; AISE-P306; CS23-p; Glass cleaner. Manual process; AISE-P312; Professional use; Pharmaceuticals; CS45-p; Animal housing care. Manual process; AISE-P808; Professional use of medical devices; CS51-p; Medical devices . Spray process; AISE-P1104

10: Professional use of vehicle cleaning products; CS39-p; Car wash product. Semi-Automatic process; AISE-P701; CS40-p; Car wash product. Spray and wipe manual process; AISE-P702; CS42-p; Dewaxing product. Semi-Automatic process; AISE-P704; Professional use of laundry products; CS2-p; Laundry detergent. Manual process; AISE-P103; Professional use of general surface cleaning products; CS19-p; Descaling agent. Spray and rinse manual process; AISE-P308; CS25-p; Surface disinfectant. Manual process; AISE-P314; CS26-p; Surface disinfectant. Spray and rinse manual process; AISE-P315; Professional use of floor care products; CS32-p; Floor stripper. Manual process; AISE-P404; CS33-p; Floor stripper. Semi-Automatic process; AISE-P405; Professional use of medical devices; CS50-p; Medical devices . Manual process; AISE-P1103

11: Professional use of vehicle cleaning products; CS41-p; Car wash product. Spray and wipe manual process; AISE-P703; CS43-p; Boat cleaner. Manual process; AISE-P705; CS44-p; Boat cleaner. Spray and wipe manual process; AISE-P706

12: Professional use of dishwashing products; CS9-p; Dishwash product. Automatic process; AISE-P202

13: Professional use of general surface cleaning products; CS21-u; Oven/Grill Cleaner. Manual process; AISE-P310

14: Professional use of laundry products; CS2-u; Laundry detergent. Manual process; AISE-P103; Professional use of dishwashing products; CS8-u; Dishwash product. Manual process; AISE-P201; Professional use of general surface cleaning products; CS28-u; Wet wipe. Manual process; AISE-P317; Professional use of floor care products; CS36-u1; Carpet cleaner. Spray and brush manual process; AISE-P411

15: Professional use of general surface cleaning products; CS18-u; Descaling agent. Manual process; AISE-P307

16: Professional use of floor care products; CS31-u; Floor cleaner. Manual process; AISE-P403; Professional use of laundry products; CS7-u1; Prespotter/Stain remover. Manual process; AISE-P113; Professional use of general surface cleaning products; CS12-u; General purpose cleaner. Manual process; AISE-P301; CS13-u1; General purpose cleaner. Spray and wipe manual process; AISE-P302; CS14-u; Kitchen cleaner. Manual process; AISE-P303; CS15-u1; Kitchen cleaner. Spray and wipe manual process; AISE-P304; CS16-u; Sanitary cleaner. Manual process; AISE-P305; CS17-u1; Sanitary cleaner. Spray and wipe manual process; AISE-P306; CS23-u; Glass cleaner. Manual process; AISE-P312; CS24-u1; Glass cleaner. Spray and wipe manual process; AISE-P313; CS25-u; Surface disinfectant. Manual process; AISE-P314; CS26-u1; Surface disinfectant. Spray and rinse manual process; AISE-P315; CS27-u; Metal cleaning agent. Manual process; AISE-P316

17: Professional use of floor care products; CS29-u; Floor cleaner. Semi-Automatic process; AISE-P401; CS30-u1; Floor cleaner. Spray and wipe manual process; AISE-P402; CS33-u; Floor stripper. Semi-Automatic process; AISE-P405; CS34-u; Carpet cleaner. Manual process; AISE-P409; CS35-u; Carpet cleaner. Semi-Automatic process; AISE-P410; Professional use; Pharmaceuticals; CS45-u; Animal housing care. Manual process; AISE-P808; Professional use of medical devices; CS50-u; Medical devices . Manual process; AISE-P1103; CS51-u1; Medical devices . Spray process; AISE-P1104

18: Professional use of general surface cleaning products; CS19-u1; Descaling agent. Spray and rinse manual process; AISE-P308; CS22-u1; Oven/Grill Cleaner. Spray and wipe manual process; AISE-P311; Professional use of floor care products; CS32-u; Floor stripper. Manual process; AISE-P404

19: Professional use of vehicle cleaning products; CS41-u1; Car wash product. Spray and wipe manual process; AISE-P703; CS43-u; Boat cleaner. Manual process; AISE-P705; CS44-u1; Boat cleaner. Spray and wipe manual process; AISE-P706

20: Professional use of façade/surface cleaning products; CS47-u1; Façade/surface cleaner. Medium pressure process; AISE-P902

21: Professional use of vehicle cleaning products; CS40-u; Car wash product. Spray and rinse process; AISE-P702; Professional use of laundry products; CS7-u2; Prespotter/Stain remover. Manual process; AISE-P113; Professional use of general surface cleaning products; CS13-u2; General purpose cleaner. Spray and wipe manual process; AISE-P302; CS15-u2; Kitchen cleaner. Spray and wipe manual process; AISE-P304; CS17-u2; Sanitary cleaner. Spray and wipe manual process; AISE-P306; CS24-u2; Glass cleaner. Spray and wipe manual process; AISE-P313; CS26-u2; Surface disinfectant. Spray and rinse manual process; AISE-P315; Professional use of floor care products; CS30-u2; Floor cleaner. Spray and wipe manual process; AISE-P402; CS36-u2; Carpet cleaner. Spray and brush manual process; AISE-P411; Professional use of medical devices; CS51-u2; Medical devices . Spray process; AISE-P1104

22: Professional use of general surface cleaning products; CS19-u2; Descaling agent. Spray and rinse manual process; AISE-P308; CS22-u2; Oven/Grill Cleaner. Spray and wipe manual process; AISE-P311

23: Professional use of vehicle cleaning products; CS41-u2; Car wash product. Spray and wipe manual process; AISE-P703; CS44-u2; Boat cleaner. Spray and wipe manual process; AISE-P706

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25: Professional use of façade/surface cleaning products; CS46-u; Façade/surface cleaner. High pressure process; PROC 11 AISE-P901  
26: Professional use of maintenance products; CS37; Drain unblocker. Manual process; AISE-P606; CS38; Drain cleaner. Manual process; AISE-P607 PROC 13  
27: Professional use of general surface cleaning products; CS20-u; Descaling agent. Dipping process; AISE-P309; PROC 13  
Professional use of medical devices; CS49-u; Medical devices . Dipping process; AISE-P1102

### 4.2. Conditions of use affecting exposure

#### 4.2.1. Control of environmental exposure: GES 4; Professional end-use of washing and cleaning products (ERC 8a)

#### 4.2.2. Control of worker exposure

##### Conditions of use applicable to all contributing scenarios

Product (article) characteristics
Liquid
Covers concentrations up to 1 %
Technical and organisational conditions and measures
Local exhaust ventilation; No.
Other conditions affecting workers exposure
Assumes process temperature up to 40 °C

##### Specific conditions of use per contributing scenario

Contributing scenario	Specific conditions of use
Professional use of laundry products; CS1-u; Laundry detergent. Semi automatic process; AISE-P102; CS3-u; Conditioner (softner/starch). Semi automatic process; AISE-P105; CS4-u; Laundry aid (gasing). Semi automatic process; AISE-P108; CS5-u; Laundry aid (non-gasing). Semi automatic process; AISE-P111; Professional use of dishwashing products; CS10-u; Dishwash product. Semi-Automatic process; AISE-P203; CS11-u; Rinse aid. Automatic process; AISE-P204; Professional use of medical devices; CS48-u; Medical devices . Semi-automatic process; AISE-P1101 (PROC 1)	Covers use up to 8 h/day Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Occupational Health and Safety Management System; Basic Respiratory protection; No. Use suitable eye protection. Personal protection; dermal; No. Body parts potentially exposed; One hand face only (240 cm2) Indoor use
Professional use of dishwashing products; CS9-u; Dishwash product. Automatic process; AISE-P202 (PROC 2)	Covers use up to 8 h/day Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Occupational Health and Safety Management System; Basic Wear a respirator which reduces the air impurities by at least a factor of 10 (APF >= 10). For further specification, refer to section 8 of the SDS Use suitable eye protection. Personal protection; dermal; No. Body parts potentially exposed; Two hands face only (480 cm2) Indoor use
Professional use of laundry products; CS6-u; Laundry aid (non-gasing). Manual process; AISE-P112 (PROC 4)	Covers use up to 0.25 h/day Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Occupational Health and Safety Management System; Basic Respiratory protection; No.

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	<p>Use suitable eye protection.</p> <p>Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS.</p> <p>Body parts potentially exposed; Two hands face only (480 cm2)</p> <p>Indoor use</p>
<p><b>Professional use of vehicle cleaning products; Semi-automated task; CS39-u; Car wash product. Semi-Automatic process; AISE-P701; CS42-u; Dewaxing product. Semi-Automatic process; AISE-P704 (PROC 4)</b></p>	<p>Covers use up to 8 h/day</p> <p>Room ventilation; Basic; Up to 3 air change per hour</p> <p>Occupational Health and Safety Management System; Basic</p> <p>Wear suitable gloves tested to EN374.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS.</p> <p>Wear a respirator which reduces the air impurities by at least a factor of 10 (APF &gt;= 10). For further specification, refer to section 8 of the SDS</p> <p>Use suitable eye protection.</p> <p>Body parts potentially exposed; Two hands face only (480 cm2)</p> <p>Outdoor use</p>
<p><b>Professional use of laundry products; CS1-p; Laundry detergent. Semi automatic process; AISE-P102; CS3-p; Conditioner (softener/starch). Semi automatic process; AISE-P105; CS4-p; Laundry aid (gasing). Semi automatic process; AISE-P108; CS5-p; Laundry aid (non-gasing). Semi automatic process; AISE-P111; CS6-p; Laundry aid (non-gasing). Manual process; AISE-P112; Professional use of dishwashing products; CS10-p; Dishwash product. Semi-Automatic process; AISE-P203; CS11-p; Rinse aid. Automatic process; AISE-P204; Professional use of general surface cleaning products; CS20-p; Descaling agent. Dipping process; AISE-P309; Professional use of medical devices; CS48-p; Medical devices . Semi-automatic process; AISE-P1101; CS49-p; Medical devices . Dipping process; AISE-P1102 (PROC 8a)</b></p>	<p>Covers use up to 0.25 h/day</p> <p>Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).</p> <p>Occupational Health and Safety Management System; Basic</p> <p>Wear a respirator which reduces the air impurities by at least a factor of 10 (APF &gt;= 10). For further specification, refer to section 8 of the SDS</p> <p>Use suitable eye protection.</p> <p>Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS.</p> <p>Body parts potentially exposed; Two hands (960 cm2)</p> <p>Indoor use</p>
<p><b>Professional use of façade/surface cleaning products; CS46-p; Façade/surface cleaner. High pressure process; AISE-P901; CS47-p; Façade/surface cleaner. Medium pressure process; AISE-P902 (PROC 8a)</b></p>	<p>Covers use up to 0.25 h/day</p> <p>Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).</p> <p>Occupational Health and Safety Management System; Basic</p> <p>Wear a respirator which reduces the air impurities by at least a factor of 10 (APF &gt;= 10). For further specification, refer to section 8 of the SDS</p> <p>Use suitable eye protection.</p> <p>Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS.</p> <p>Body parts potentially exposed; Two hands (960 cm2)</p> <p>Indoor use</p>
<p><b>Professional use of dishwashing products; CS8-p; Dishwash product. Manual process; AISE-P201 (PROC 8a)</b></p>	<p>Covers use up to 0.25 h/day</p> <p>Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).</p> <p>Occupational Health and Safety Management System; Basic</p> <p>Wear a respirator which reduces the air impurities by at least a factor of 10 (APF &gt;= 10). For further specification, refer to section 8 of the SDS</p> <p>Use suitable eye protection.</p> <p>Wear suitable gloves tested to EN374.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS.</p>
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	Body parts potentially exposed; Two hands (960 cm2) Indoor use
Professional use of floor care products; CS31-p; Floor cleaner. Manual process; AISE-P403; CS29-p; Floor cleaner. Semi-Automatic process; AISE-P401; CS30-p; Floor cleaner. Spray and wipe manual process; AISE-P402; CS34-p; Carpet cleaner. Manual process; AISE-P409; CS35-p; Carpet cleaner. Semi-Automatic process; AISE-P410; Professional use of general surface cleaning products; CS12-p; General purpose cleaner. Manual process; AISE-P301; CS13-p; General purpose cleaner. Spray and wipe manual process; AISE-P302; CS14-p; Kitchen cleaner. Manual process; AISE-P303; CS15-p; Kitchen cleaner. Spray and wipe manual process; AISE-P304; CS16-p; Sanitary cleaner. Manual process; AISE-P305; CS17-p; Sanitary cleaner. Spray and wipe manual process; AISE-P306; CS23-p; Glass cleaner. Manual process; AISE-P312; Professional use; Pharmaceuticals; CS45-p; Animal housing care. Manual process; AISE-P808; Professional use of medical devices; CS51-p; Medical devices. Spray process; AISE-P1104 (PROC 8a)	Covers use up to 1 h/day Room ventilation; Basic; Up to 3 air change per hour Occupational Health and Safety Management System; Basic Wear suitable gloves tested to EN374.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Wear a respirator which reduces the air impurities by at least a factor of 10 (APF >= 10). For further specification, refer to section 8 of the SDS Use suitable eye protection. Body parts potentially exposed; Two hands (960 cm2) Outdoor use
Professional use of vehicle cleaning products; CS39-p; Car wash product. Semi-Automatic process; AISE-P701; CS40-p; Car wash product. Spray and wipe manual process; AISE-P702; CS42-p; Dewaxing product. Semi-Automatic process; AISE-P704; Professional use of laundry products; CS2-p; Laundry detergent. Manual process; AISE-P103; Professional use of general surface cleaning products; CS19-p; Descaling agent. Spray and rinse manual process; AISE-P308; CS25-p; Surface disinfectant. Manual process; AISE-P314; CS26-p; Surface disinfectant. Spray and rinse manual process; AISE-P315; Professional use of floor care products; CS32-p; Floor stripper. Manual process; AISE-P404; CS33-p; Floor stripper. Semi-Automatic process; AISE-P405; Professional use of medical devices; CS50-p; Medical devices. Manual process; AISE-P1103 (PROC 8a)	Covers use up to 1 h/day Room ventilation; Basic; Up to 3 air change per hour Occupational Health and Safety Management System; Basic Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Wear a respirator which reduces the air impurities by at least a factor of 10 (APF >= 10). For further specification, refer to section 8 of the SDS Face/eye protection; No. Body parts potentially exposed; Two hands (960 cm2) Outdoor use
Professional use of vehicle cleaning products; CS41-p; Car wash product. Spray and wipe manual process; AISE-P703; CS43-p; Boat cleaner. Manual process; AISE-P705; CS44-p; Boat cleaner. Spray and wipe manual	Covers use up to 1 h/day Room ventilation; Basic; Up to 3 air change per hour Occupational Health and Safety Management System; Basic Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the

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<b>process; AISE-P706 (PROC 8a)</b>	hands.; For further specification, refer to section 8 of the SDS. Wear a respirator which reduces the air impurities by at least a factor of 10 (APF >= 10). For further specification, refer to section 8 of the SDS Use suitable eye protection. Body parts potentially exposed; Two hands (960 cm2) Outdoor use
<b>Professional use of dishwashing products; CS9-p; Dishwash product. Automatic process; AISE-P202 (PROC 8b)</b>	Covers use up to 0.25 h/day Room ventilation; Basic; Up to 3 air change per hour Occupational Health and Safety Management System; Basic Respiratory protection; No. Use suitable eye protection. Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Body parts potentially exposed; Two hands (960 cm2) Indoor use
<b>Professional use of general surface cleaning products; CS21-u; Oven/Grill Cleaner. Manual process; AISE-P310 (PROC 10)</b>	Covers use up to 1 h/day Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Occupational Health and Safety Management System; Basic Wear a respirator which reduces the air impurities by at least a factor of 10 (APF >= 10). For further specification, refer to section 8 of the SDS Use suitable eye protection. Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Body parts potentially exposed; Two hands (960 cm2) Indoor use
<b>Professional use of laundry products; CS2-u; Laundry detergent. Manual process; AISE-P103; Professional use of dishwashing products; CS8-u; Dishwash product. Manual process; AISE-P201; Professional use of general surface cleaning products; CS28-u; Wet wipe. Manual process; AISE-P317; Professional use of floor care products; CS36-u1; Carpet cleaner. Spray and brush manual process; AISE-P411 (PROC 10)</b>	Covers use up to 4 h/day Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Occupational Health and Safety Management System; Basic Wear a respirator which reduces the air impurities by at least a factor of 20 (APF >= 20). For further specification, refer to section 8 of the SDS Use suitable eye protection. Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Body parts potentially exposed; Two hands (960 cm2) Indoor use
<b>Professional use of general surface cleaning products; CS18-u; Descaling agent. Manual process; AISE-P307 (PROC 10)</b>	Covers use up to 4 h/day Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Occupational Health and Safety Management System; Basic Wear a respirator which reduces the air impurities by at least a factor of 20 (APF >= 20). For further specification, refer to section 8 of the SDS Use suitable eye protection. Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Body parts potentially exposed; Two hands (960 cm2) Indoor use
<b>Professional use of floor care products; CS31-u; Floor cleaner. Manual process; AISE-P403; Professional use of laundry products; CS7-u1; Prespotter/Stain remover. Manual process; AISE-P113; Professional use of general surface cleaning products; CS12-u; General purpose cleaner. Manual process; AISE-P301; CS13-u1; General purpose</b>	Covers use up to 8 h/day Room ventilation; Basic; Up to 3 air change per hour Occupational Health and Safety Management System; Basic Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Wear a respirator which reduces the air impurities by at least a factor of 20 (APF >= 20). For further specification, refer to section 8 of the SDS
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cleaner. Spray and wipe manual process; AISE-P302; CS14-u; Kitchen cleaner. Manual process; AISE-P303; CS15-u1; Kitchen cleaner. Spray and wipe manual process; AISE-P304; CS16-u; Sanitary cleaner. Manual process; AISE-P305; CS17-u1; Sanitary cleaner. Spray and wipe manual process; AISE-P306; CS23-u; Glass cleaner. Manual process; AISE-P312; CS24-u1; Glass cleaner. Spray and wipe manual process; AISE-P313; CS25-u; Surface disinfectant. Manual process; AISE-P314; CS26-u1; Surface disinfectant. Spray and rinse manual process; AISE-P315; CS27-u; Metal cleaning agent. Manual process; AISE-P316 (PROC 10)	Face/eye protection; No. Body parts potentially exposed; Two hands (960 cm2) Outdoor use
Professional use of floor care products; CS29-u; Floor cleaner. Semi-Automatic process; AISE-P401; CS30-u1; Floor cleaner. Spray and wipe manual process; AISE-P402; CS33-u; Floor stripper. Semi-Automatic process; AISE-P405; CS34-u; Carpet cleaner. Manual process; AISE-P409; CS35-u; Carpet cleaner. Semi-Automatic process; AISE-P410; Professional use; Pharmaceuticals; CS45-u; Animal housing care. Manual process; AISE-P808; Professional use of medical devices; CS50-u; Medical devices . Manual process; AISE-P1103; CS51-u1; Medical devices . Spray process; AISE-P1104 (PROC 10)	Covers use up to 8 h/day Room ventilation; Basic; Up to 3 air change per hour Occupational Health and Safety Management System; Basic Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Wear a respirator which reduces the air impurities by at least a factor of 20 (APF >= 20). For further specification, refer to section 8 of the SDS Face/eye protection; No. Body parts potentially exposed; Two hands (960 cm2) Outdoor use
Professional use of general surface cleaning products; CS19-u1; Descaling agent. Spray and rinse manual process; AISE-P308; CS22-u1; Oven/Grill Cleaner. Spray and wipe manual process; AISE-P311; Professional use of floor care products; CS32-u; Floor stripper. Manual process; AISE-P404 (PROC 10)	Covers use up to 8 h/day Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Occupational Health and Safety Management System; Basic Wear a respirator which reduces the air impurities by at least a factor of 20 (APF >= 20). For further specification, refer to section 8 of the SDS Use suitable eye protection. Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Body parts potentially exposed; Two hands (960 cm2) Indoor use
Professional use of vehicle cleaning products; CS41-u1; Car wash product. Spray and wipe manual process; AISE-P703; CS43-u; Boat cleaner. Manual process; AISE-P705; CS44-u1; Boat cleaner. Spray and wipe manual process; AISE-P706 (PROC 10)	Covers use up to 8 h/day Room ventilation; Basic; Up to 3 air change per hour Occupational Health and Safety Management System; Basic Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Wear a respirator which reduces the air impurities by at least a factor of 20 (APF >= 20). For further specification, refer to section 8 of the SDS Use suitable eye protection. Body parts potentially exposed; Two hands (960 cm2) Outdoor use
Professional use of façade/surface cleaning products; CS47-u1;	Covers use up to 8 h/day Room ventilation; Basic; Up to 3 air change per hour
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<p><b>Façade/surface cleaner. Medium pressure process; AISE-P902 (PROC 10)</b></p>	<p>Occupational Health and Safety Management System; Basic Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Wear a respirator which reduces the air impurities by at least a factor of 20 (APF &gt;= 20). For further specification, refer to section 8 of the SDS Use suitable eye protection. Body parts potentially exposed; Two hands (960 cm2) Outdoor use</p>
<p><b>Professional use of vehicle cleaning products; CS40-u; Car wash product. Spray and rinse process; AISE-P702; Professional use of laundry products; CS7-u2; Prespotter/Stain remover. Manual process; AISE-P113; Professional use of general surface cleaning products; CS13-u2; General purpose cleaner. Spray and wipe manual process; AISE-P302; CS15-u2; Kitchen cleaner. Spray and wipe manual process; AISE-P304; CS17-u2; Sanitary cleaner. Spray and wipe manual process; AISE-P306; CS24-u2; Glass cleaner. Spray and wipe manual process; AISE-P313; CS26-u2; Surface disinfectant. Spray and rinse manual process; AISE-P315; Professional use of floor care products; CS30-u2; Floor cleaner. Spray and wipe manual process; AISE-P402; CS36-u2; Carpet cleaner. Spray and brush manual process; AISE-P411; Professional use of medical devices; CS51-u2; Medical devices . Spray process; AISE-P1104 (PROC 11)</b></p>	<p>Covers use up to 1 h/day Handling with enhanced room ventilation; Basic; Up to 3 air change per hour Occupational Health and Safety Management System; Basic Wear chemically resistant gloves (tested to EN374) in combination with specific activity training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Wear a respirator which reduces the air impurities by at least a factor of 20 (APF &gt;= 20). For further specification, refer to section 8 of the SDS Use suitable eye protection. Body parts potentially exposed; Assumes 2 hands and forearms (1500 cm2) Outdoor use</p>
<p><b>Professional use of general surface cleaning products; CS19-u2; Descaling agent. Spray and rinse manual process; AISE-P308; CS22-u2; Oven/Grill Cleaner. Spray and wipe manual process; AISE-P311 (PROC 11)</b></p>	<p>Covers use up to 1 h/day Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Occupational Health and Safety Management System; Basic Wear a respirator which reduces the air impurities by at least a factor of 20 (APF &gt;= 20). For further specification, refer to section 8 of the SDS Use suitable eye protection. Wear chemically resistant gloves (tested to EN374) in combination with specific activity training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Body parts potentially exposed; Assumes 2 hands and forearms (1500 cm2) Indoor use</p>
<p><b>Professional use of vehicle cleaning products; CS41-u2; Car wash product. Spray and wipe manual process; AISE-P703; CS44-u2; Boat cleaner. Spray and wipe manual process; AISE-P706 (PROC 11)</b></p>	<p>Covers use up to 1 h/day Room ventilation; Basic; Up to 3 air change per hour Occupational Health and Safety Management System; Basic Wear chemically resistant gloves (tested to EN374) in combination with specific activity training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Wear a respirator which reduces the air impurities by at least a factor of 20 (APF &gt;= 20). For further specification, refer to section 8 of the SDS Use suitable eye protection. Body parts potentially exposed; Assumes 2 hands and forearms (1500 cm2) Outdoor use</p>
<p><b>Professional use of façade/surface cleaning products; CS47-u2;</b></p>	<p>Covers use up to 1 h/day Room ventilation; Basic; Up to 3 air change per hour</p>

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<b>Façade/surface cleaner. Medium pressure process; AISE-P902 (PROC 11)</b>	Occupational Health and Safety Management System; Basic Wear chemically resistant gloves (tested to EN374) in combination with specific activity training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Wear a respirator which reduces the air impurities by at least a factor of 10 (APF >= 10). For further specification, refer to section 8 of the SDS Use suitable eye protection. Body parts potentially exposed; Assumes 2 hands and forearms (1500 cm2) Outdoor use
<b>Professional use of façade/surface cleaning products; CS46-u; Façade/surface cleaner. High pressure process; AISE-P901 (PROC 11)</b>	Covers use up to 8 h/day Room ventilation; Basic; Up to 3 air change per hour Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.; Ensure regular inspection, cleaning and maintenance of equipment and machines.; Clear spills immediately.; Ensure daily cleaning of the equipment. Wear chemically resistant gloves (tested to EN374) in combination with specific activity training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Wear a respirator which reduces the air impurities by at least a factor of 20 (APF >= 20). For further specification, refer to section 8 of the SDS Use suitable eye protection. Body parts potentially exposed; Assumes 2 hands and forearms (1500 cm2) Outdoor use
<b>Professional use of maintenance products; CS37; Drain unblocker. Manual process; AISE-P606; CS38; Drain cleaner. Manual process; AISE-P607 (PROC 13)</b>	Covers use up to 0.25 h/day Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Occupational Health and Safety Management System; Basic Respiratory protection; No. Use suitable eye protection. Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Body parts potentially exposed; Two hands face only (480 cm2) Indoor use
<b>Professional use of general surface cleaning products; CS20-u; Descaling agent. Dipping process; AISE-P309; Professional use of medical devices; CS49-u; Medical devices . Dipping process; AISE-P1102 (PROC 13)</b>	Covers use up to 1 h/day Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Occupational Health and Safety Management System; Basic Respiratory protection; No. Use suitable eye protection. Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Body parts potentially exposed; Two hands face only (480 cm2) Indoor use

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

#### 4.3.1. Environmental release and exposure: GES 4; Professional end-use of washing and cleaning products (ERC 8a)

Release route	Release rate	Release estimation method
Water	0 kg/day	ERC
Air	0 kg/day	ERC
Soil	0 kg/day	ERC

Protection target	Exposure estimate	RCR
Fresh water	1.65E-4 mg/L (EUSES 2.1.2)	0.026
Sediment (freshwater)	0.034 mg/kg dw (EUSES 2.1.2)	0.026
Marine water	1.58E-5 mg/L (EUSES 2.1.2)	0.025

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Sediment (marine water)	3.2E-3 mg/kg dw (EUSES 2.1.2)	0.025
Sewage Treatment Plant	0 mg/L (EUSES 2.1.2)	< 0.01
Agricultural soil	8.48E-5 mg/kg dw (EUSES 2.1.2)	< 0.01
Predator's prey (freshwater)	0.011 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (marine water)	1.05E-3 mg/kg ww (EUSES 2.1.2)	< 0.01
Top predator's prey (marine water)	1.05E-3 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (terrestrial)	2.84E-4 mg/kg ww (EUSES 2.1.2)	< 0.01
Man via environment - Inhalation (systemic effects)	1.01E-6 mg/m³ (EUSES 2.1.2)	< 0.01
Man via environment - Oral	2.69E-5 mg/kg bw/day (EUSES 2.1.2)	< 0.01
Man via environment - combined routes		< 0.01

**4.3.2. Worker exposure: Professional use of laundry products; CS1-u; Laundry detergent. Semi automatic process; AISE-P102; CS3-u; Conditioner (softener/starch). Semi automatic process; AISE-P105; CS4-u; Laundry aid (gasing). Semi automatic process; AISE-P108; CS5-u; Laundry aid (non-gasing). Semi automatic process; AISE-P111; Professional use of dishwashing products; CS10-u; Dishwash product. Semi-Automatic process; AISE-P203; CS11-u; Rinse aid. Automatic process; AISE-P204; Professional use of medical devices; CS48-u; Medical devices. Semi-automatic process; AISE-P1101 (PROC 1)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	5.96E-3 mg/m³ (TRA Workers 3.0)	< 0.01
Dermal, systemic, long term	3.4E-3 mg/kg bw/day (TRA Workers 3.0)	< 0.01
Dermal, local, long term	9.92E-4 mg/cm² (TRA Workers 3.0)	< 0.01
Combined, systemic, long term		< 0.01

**4.3.3. Worker exposure: Professional use of dishwashing products; CS9-u; Dishwash product. Automatic process; AISE-P202 (PROC 2)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.298 mg/m³ (TRA Workers 3.0)	0.121
Dermal, systemic, long term	0.137 mg/kg bw/day (TRA Workers 3.0)	0.165
Dermal, local, long term	0.02 mg/cm² (TRA Workers 3.0)	0.112
Combined, systemic, long term		0.286

**4.3.4. Worker exposure: Professional use of laundry products; CS6-u; Laundry aid (non-gasing). Manual process; AISE-P112 (PROC 4)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.596 mg/m³ (TRA Workers 3.0)	0.241
Dermal, systemic, long term	0.069 mg/kg bw/day (TRA Workers 3.0)	0.083
Dermal, local, long term	0.01 mg/cm² (TRA Workers 3.0)	0.056
Combined, systemic, long term		0.324

**4.3.5. Worker exposure: Professional use of vehicle cleaning products; Semi-automated task; CS39-u; Car wash product. Semi-Automatic process; AISE-P701; CS42-u; Dewaxing product. Semi-Automatic process; AISE-P704 (PROC 4)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.596 mg/m³ (TRA Workers 3.0)	0.241
Dermal, systemic, long term	0.137 mg/kg bw/day (TRA Workers 3.0)	0.165
Dermal, local, long term	0.02 mg/cm² (TRA Workers 3.0)	0.112
Combined, systemic, long term		0.407

**4.3.6. Worker exposure: Professional use of laundry products; CS1-p; Laundry detergent. Semi automatic process; AISE-P102; CS3-p; Conditioner (softener/starch). Semi automatic process; AISE-P105; CS4-p; Laundry aid (gasing). Semi automatic process; AISE-P108; CS5-p; Laundry aid (non-gasing). Semi automatic process; AISE-P111; CS6-p; Laundry aid (non-gasing). Manual process; AISE-P112; Professional use of dishwashing products; CS10-p; Dishwash product. Semi-Automatic process; AISE-P203; CS11-p; Rinse aid. Automatic process; AISE-**

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**P204; Professional use of general surface cleaning products; CS20-p; Descaling agent. Dipping process; AISE-P309; Professional use of medical devices; CS48-p; Medical devices . Semi-automatic process; AISE-P1101; CS49-p; Medical devices . Dipping process; AISE-P1102 (PROC 8a)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.149 mg/m³ (TRA Workers 3.0)	0.06
Dermal, systemic, long term	0.137 mg/kg bw/day (TRA Workers 3.0)	0.165
Dermal, local, long term	1E-2 mg/cm² (TRA Workers 3.0)	0.056
Combined, systemic, long term		0.225

**4.3.7. Worker exposure: Professional use of façade/surface cleaning products; CS46-p; Façade/surface cleaner. High pressure process; AISE-P901; CS47-p; Façade/surface cleaner. Medium pressure process; AISE-P902 (PROC 8a)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.149 mg/m³ (TRA Workers 3.0)	0.06
Dermal, systemic, long term	0.137 mg/kg bw/day (TRA Workers 3.0)	0.165
Dermal, local, long term	1E-2 mg/cm² (TRA Workers 3.0)	0.056
Combined, systemic, long term		0.225

**4.3.8. Worker exposure: Professional use of dishwashing products; CS8-p; Dishwash product. Manual process; AISE-P201 (PROC 8a)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.149 mg/m³ (TRA Workers 3.0)	0.06
Dermal, systemic, long term	0.274 mg/kg bw/day (TRA Workers 3.0)	0.33
Dermal, local, long term	0.02 mg/cm² (TRA Workers 3.0)	0.112
Combined, systemic, long term		0.391

**4.3.9. Worker exposure: Professional use of floor care products; CS31-p; Floor cleaner. Manual process; AISE-P403; CS29-p; Floor cleaner. Semi-Automatic process; AISE-P401; CS30-p; Floor cleaner. Spray and wipe manual process; AISE-P402; CS34-p; Carpet cleaner. Manual process; AISE-P409; CS35-p; Carpet cleaner. Semi-Automatic process; AISE-P410; Professional use of general surface cleaning products; CS12-p; General purpose cleaner. Manual process; AISE-P301; CS13-p; General purpose cleaner. Spray and wipe manual process; AISE-P302; CS14-p; Kitchen cleaner. Manual process; AISE-P303; CS15-p; Kitchen cleaner. Spray and wipe manual process; AISE-P304; CS16-p; Sanitary cleaner. Manual process; AISE-P305; CS17-p; Sanitary cleaner. Spray and wipe manual process; AISE-P306; CS23-p; Glass cleaner. Manual process; AISE-P312; Professional use; Pharmaceuticals; CS45-p; Animal housing care. Manual process; AISE-P808; Professional use of medical devices; CS51-p; Medical devices . Spray process; AISE-P1104 (PROC 8a)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.298 mg/m³ (TRA Workers 3.0)	0.121
Dermal, systemic, long term	0.274 mg/kg bw/day (TRA Workers 3.0)	0.33
Dermal, local, long term	0.02 mg/cm² (TRA Workers 3.0)	0.112
Combined, systemic, long term		0.451

**4.3.10. Worker exposure: Professional use of vehicle cleaning products; CS39-p; Car wash product. Semi-Automatic process; AISE-P701; CS40-p; Car wash product. Spray and wipe manual process; AISE-P702; CS42-p; Dewaxing product. Semi-Automatic process; AISE-P704; Professional use of laundry products; CS2-p; Laundry detergent. Manual process; AISE-P103; Professional use of general surface cleaning products; CS19-p; Descaling agent. Spray and rinse manual process; AISE-P308; CS25-p; Surface disinfectant. Manual process; AISE-P314; CS26-p; Surface disinfectant. Spray and rinse manual process; AISE-P315; Professional use of**

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**floor care products; CS32-p; Floor stripper. Manual process; AISE-P404; CS33-p; Floor stripper. Semi-Automatic process; AISE-P405; Professional use of medical devices; CS50-p; Medical devices . Manual process; AISE-P1103 (PROC 8a)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.298 mg/m³ (TRA Workers 3.0)	0.121
Dermal, systemic, long term	0.137 mg/kg bw/day (TRA Workers 3.0)	0.165
Dermal, local, long term	1E-2 mg/cm² (TRA Workers 3.0)	0.056
Combined, systemic, long term		0.286

**4.3.11. Worker exposure: Professional use of vehicle cleaning products; CS41-p; Car wash product. Spray and wipe manual process; AISE-P703; CS43-p; Boat cleaner. Manual process; AISE-P705; CS44-p; Boat cleaner. Spray and wipe manual process; AISE-P706 (PROC 8a)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.298 mg/m³ (TRA Workers 3.0)	0.121
Dermal, systemic, long term	0.137 mg/kg bw/day (TRA Workers 3.0)	0.165
Dermal, local, long term	1E-2 mg/cm² (TRA Workers 3.0)	0.056
Combined, systemic, long term		0.286

**4.3.12. Worker exposure: Professional use of dishwashing products; CS9-p; Dishwash product. Automatic process; AISE-P202 (PROC 8b)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.851 mg/m³ (TRA Workers 3.0)	0.345
Dermal, systemic, long term	0.137 mg/kg bw/day (TRA Workers 3.0)	0.165
Dermal, local, long term	1E-2 mg/cm² (TRA Workers 3.0)	0.056
Combined, systemic, long term		0.51

**4.3.13. Worker exposure: Professional use of general surface cleaning products; CS21-u; Oven/Grill Cleaner. Manual process; AISE-P310 (PROC 10)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.298 mg/m³ (TRA Workers 3.0)	0.121
Dermal, systemic, long term	0.274 mg/kg bw/day (TRA Workers 3.0)	0.33
Dermal, local, long term	0.02 mg/cm² (TRA Workers 3.0)	0.112
Combined, systemic, long term		0.451

**4.3.14. Worker exposure: Professional use of laundry products; CS2-u; Laundry detergent. Manual process; AISE-P103; Professional use of dishwashing products; CS8-u; Dishwash product. Manual process; AISE-P201; Professional use of general surface cleaning products; CS28-u; Wet wipe. Manual process; AISE-P317; Professional use of floor care products; CS36-u1; Carpet cleaner. Spray and brush manual process; AISE-P411 (PROC 10)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.447 mg/m³ (TRA Workers 3.0)	0.181
Dermal, systemic, long term	0.274 mg/kg bw/day (TRA Workers 3.0)	0.33
Dermal, local, long term	0.02 mg/cm² (TRA Workers 3.0)	0.112
Combined, systemic, long term		0.511

**4.3.15. Worker exposure: Professional use of general surface cleaning products; CS18-u; Descaling agent. Manual process; AISE-P307 (PROC 10)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.447 mg/m³ (TRA Workers 3.0)	0.181
Dermal, systemic, long term	0.274 mg/kg bw/day (TRA Workers 3.0)	0.33
Dermal, local, long term	0.02 mg/cm² (TRA Workers 3.0)	0.112
Combined, systemic, long term		0.511

**4.3.16. Worker exposure: Professional use of floor care products; CS31-u; Floor cleaner. Manual process; AISE-P403; Professional use of laundry products; CS7-u1; Prespotter/Stain remover. Manual process; AISE-P113; Professional use of general surface cleaning products;**

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**CS12-u; General purpose cleaner. Manual process; AISE-P301; CS13-u1; General purpose cleaner. Spray and wipe manual process; AISE-P302; CS14-u; Kitchen cleaner. Manual process; AISE-P303; CS15-u1; Kitchen cleaner. Spray and wipe manual process; AISE-P304; CS16-u; Sanitary cleaner. Manual process; AISE-P305; CS17-u1; Sanitary cleaner. Spray and wipe manual process; AISE-P306; CS23-u; Glass cleaner. Manual process; AISE-P312; CS24-u1; Glass cleaner. Spray and wipe manual process; AISE-P313; CS25-u; Surface disinfectant. Manual process; AISE-P314; CS26-u1; Surface disinfectant. Spray and rinse manual process; AISE-P315; CS27-u; Metal cleaning agent. Manual process; AISE-P316 (PROC 10)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.745 mg/m <sup>3</sup> (TRA Workers 3.0)	0.302
Dermal, systemic, long term	0.274 mg/kg bw/day (TRA Workers 3.0)	0.33
Dermal, local, long term	0.02 mg/cm <sup>2</sup> (TRA Workers 3.0)	0.112
Combined, systemic, long term		0.632

**4.3.17. Worker exposure: Professional use of floor care products; CS29-u; Floor cleaner. Semi-Automatic process; AISE-P401; CS30-u1; Floor cleaner. Spray and wipe manual process; AISE-P402; CS33-u; Floor stripper. Semi-Automatic process; AISE-P405; CS34-u; Carpet cleaner. Manual process; AISE-P409; CS35-u; Carpet cleaner. Semi-Automatic process; AISE-P410; Professional use; Pharmaceuticals; CS45-u; Animal housing care. Manual process; AISE-P808; Professional use of medical devices; CS50-u; Medical devices . Manual process; AISE-P1103; CS51-u1; Medical devices . Spray process; AISE-P1104 (PROC 10)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.745 mg/m <sup>3</sup> (TRA Workers 3.0)	0.302
Dermal, systemic, long term	0.274 mg/kg bw/day (TRA Workers 3.0)	0.33
Dermal, local, long term	0.02 mg/cm <sup>2</sup> (TRA Workers 3.0)	0.112
Combined, systemic, long term		0.632

**4.3.18. Worker exposure: Professional use of general surface cleaning products; CS19-u1; Descaling agent. Spray and rinse manual process; AISE-P308; CS22-u1; Oven/Grill Cleaner. Spray and wipe manual process; AISE-P311; Professional use of floor care products; CS32-u; Floor stripper. Manual process; AISE-P404 (PROC 10)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.745 mg/m <sup>3</sup> (TRA Workers 3.0)	0.302
Dermal, systemic, long term	0.274 mg/kg bw/day (TRA Workers 3.0)	0.33
Dermal, local, long term	0.02 mg/cm <sup>2</sup> (TRA Workers 3.0)	0.112
Combined, systemic, long term		0.632

**4.3.19. Worker exposure: Professional use of vehicle cleaning products; CS41-u1; Car wash product. Spray and wipe manual process; AISE-P703; CS43-u; Boat cleaner. Manual process; AISE-P705; CS44-u1; Boat cleaner. Spray and wipe manual process; AISE-P706 (PROC 10)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.745 mg/m <sup>3</sup> (TRA Workers 3.0)	0.302
Dermal, systemic, long term	0.274 mg/kg bw/day (TRA Workers 3.0)	0.33
Dermal, local, long term	0.02 mg/cm <sup>2</sup> (TRA Workers 3.0)	0.112
Combined, systemic, long term		0.632

**4.3.20. Worker exposure: Professional use of façade/surface cleaning products; CS47-u1; Façade/surface cleaner. Medium pressure process; AISE-P902 (PROC 10)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.745 mg/m <sup>3</sup> (TRA Workers 3.0)	0.302
Dermal, systemic, long term	0.274 mg/kg bw/day (TRA Workers 3.0)	0.33
Dermal, local, long term	0.02 mg/cm <sup>2</sup> (TRA Workers 3.0)	0.112
Combined, systemic, long term		0.632

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**4.3.21. Worker exposure: Professional use of vehicle cleaning products; CS40-u; Car wash product. Spray and rinse process; AISE-P702; Professional use of laundry products; CS7-u2; Prespotter/Stain remover. Manual process; AISE-P113; Professional use of general surface cleaning products; CS13-u2; General purpose cleaner. Spray and wipe manual process; AISE-P302; CS15-u2; Kitchen cleaner. Spray and wipe manual process; AISE-P304; CS17-u2; Sanitary cleaner. Spray and wipe manual process; AISE-P306; CS24-u2; Glass cleaner. Spray and wipe manual process; AISE-P313; CS26-u2; Surface disinfectant. Spray and rinse manual process; AISE-P315; Professional use of floor care products; CS30-u2; Floor cleaner. Spray and wipe manual process; AISE-P402; CS36-u2; Carpet cleaner. Spray and brush manual process; AISE-P411; Professional use of medical devices; CS51-u2; Medical devices . Spray process; AISE-P1104 (PROC 11)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.596 mg/m³ (TRA Workers 3.0)	0.241

**4.3.22. Worker exposure: Professional use of general surface cleaning products; CS19-u2; Descaling agent. Spray and rinse manual process; AISE-P308; CS22-u2; Oven/Grill Cleaner. Spray and wipe manual process; AISE-P311 (PROC 11)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.596 mg/m³ (TRA Workers 3.0)	0.241

**4.3.23. Worker exposure: Professional use of vehicle cleaning products; CS41-u2; Car wash product. Spray and wipe manual process; AISE-P703; CS44-u2; Boat cleaner. Spray and wipe manual process; AISE-P706 (PROC 11)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.596 mg/m³ (TRA Workers 3.0)	0.241

**4.3.24. Worker exposure: Professional use of façade/surface cleaning products; CS47-u2; Façade/surface cleaner. Medium pressure process; AISE-P902 (PROC 11)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	1.192 mg/m³ (TRA Workers 3.0)	0.483

**4.3.25. Worker exposure: Professional use of façade/surface cleaning products; CS46-u; Façade/surface cleaner. High pressure process; AISE-P901 (PROC 11)**

**4.3.26. Worker exposure: Professional use of maintenance products; CS37; Drain unblocker. Manual process; AISE-P606; CS38; Drain cleaner. Manual process; AISE-P607 (PROC 13)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.596 mg/m³ (TRA Workers 3.0)	0.241
Dermal, systemic, long term	0.137 mg/kg bw/day (TRA Workers 3.0)	0.165
Dermal, local, long term	0.02 mg/cm² (TRA Workers 3.0)	0.112
Combined, systemic, long term		0.406

**4.3.27. Worker exposure: Professional use of general surface cleaning products; CS20-u; Descaling agent. Dipping process; AISE-P309; Professional use of medical devices; CS49-u; Medical devices . Dipping process; AISE-P1102 (PROC 13)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	1.192 mg/m³ (TRA Workers 3.0)	0.483
Dermal, systemic, long term	0.137 mg/kg bw/day (TRA Workers 3.0)	0.165
Dermal, local, long term	0.02 mg/cm² (TRA Workers 3.0)	0.112
Combined, systemic, long term		0.648

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

Guidance: The total tonnage of all end-uses is covered under GES6. Since the products used by professionals will not differ much from those used

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by consumers and since the conditions of environmental release are very similar for professionals and consumers, potential environmental exposure to the substance due to professional and private use was combined under GES6.  
Scaling instructions: As the environmental release factor depends on site specific operational conditions and risk management measures, Downstream Users (DU) are advised to demonstrate that a safe use is given for the amounts used at their site. Scaling may be a suitable option in this case, (ECHA Guidance for downstream users and Guidance on the compilation of safety data sheets). Scaling is a comparison of linear input parameters and determinants between data presented in the Exposure Scenario (ES) and the data available from the Downstream User to determine the risk characterisation ratios (RCR) under the operational conditions of the DU (eg. quantity of substance used per year and site, emission fraction to water, number of emission days).

## 5. ES 5: Widespread use by professional workers; Polishes and Wax Blends

### 5.1. Title section

ES name: GES 5; Professional end-use of polishes and wax blends  
Product category: Polishes and Wax Blends (PC 31)

#### Environment

1: GES 5; Professional end-use of polishes and wax blends	ERC 8a
<b>Worker</b>	
2: Professional use of maintenance products; CS8-u; Leather care product. Automatic process; AISE-P605	PROC 2
3: Professional use of maintenance products; CS8-p; Leather care product. Automatic process; AISE-P605	PROC 8b
4: Professional use of maintenance products; CS4-u; Furniture care product. Manual process; AISE-P601; Furniture care product. Spray and wipe manual process; AISE-P602; CS6-u; Leather care product. Manual process; AISE-P603; CS7-u1; Leather care product. Spray and wipe manual process; AISE-P604; CS10-u1; Stainless steel care. Spray and wipe manual process; AISE-P609	PROC 10
5: Professional use of floor care products; CS1-u; Polish / impregnating agent. Manual process; AISE-P406; Polish / impregnating agent. Semi-Automatic process; AISE-P407; CS3-u1; Polish / impregnating agent. Spray and wipe manual process; AISE-P408; Professional use of maintenance products; CS9-u; Stainless steel care. Manual process; AISE-P608	PROC 10
6: Professional use of maintenance products; CS5-u2; Furniture care product. Spray and wipe manual process; AISE-P602; CS7-u2; Leather care product. Spray and wipe manual process; AISE-P604; CS10-u1; Stainless steel care. Spray and wipe manual process; AISE-P609	PROC 11
7: Professional use of maintenance products; CS3-u2; Polish / impregnating agent. Spray and wipe manual process; AISE-P408	PROC 11
8: Professional uses; Mixing or blending in batch processes; Uses in cosmetics/personal care products, perfumes and fragrances	PROC 5
9: Professional uses; Transfer of substance or mixture (charging/discharging) at non dedicated-facilities; Uses in cosmetics/personal care products, perfumes and fragrances	PROC 8a

### 5.2. Conditions of use affecting exposure

#### 5.2.1. Control of environmental exposure: GES 5; Professional end-use of polishes and wax blends (ERC 8a)

#### 5.2.2. Control of worker exposure

#### Conditions of use applicable to all contributing scenarios

#### Product (article) characteristics

Liquid

Covers concentrations up to 1 %

#### Technical and organisational conditions and measures

Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).

Occupational Health and Safety Management System; Basic

Local exhaust ventilation; No.

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

Use suitable eye protection.

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**Other conditions affecting workers exposure**

Indoor use

Assumes process temperature up to 40 °C

**Specific conditions of use per contributing scenario**

Contributing scenario	Specific conditions of use
<b>Professional use of maintenance products; CS8-u; Leather care product. Automatic process; AISE-P605 (PROC 2)</b>	Covers use up to 8 h/day Wear a respirator which reduces the air impurities by at least a factor of 10 (APF >= 10). For further specification, refer to section 8 of the SDS Personal protection; dermal; No. Body parts potentially exposed; Two hands face only (480 cm2)
<b>Professional use of maintenance products; CS8-p; Leather care product. Automatic process; AISE-P605 (PROC 8b)</b>	Covers use up to 1 h/day Wear a respirator which reduces the air impurities by at least a factor of 10 (APF >= 10). For further specification, refer to section 8 of the SDS Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Body parts potentially exposed; Two hands (960 cm2)
<b>Professional use of maintenance products; CS4-u; Furniture care product. Manual process; AISE-P601; Furniture care product. Spray and wipe manual process; AISE-P602; CS6-u; Leather care product. Manual process; AISE-P603; CS7-u1; Leather care product. Spray and wipe manual process; AISE-P604; CS10-u1; Stainless steel care. Spray and wipe manual process; AISE-P609 (PROC 10)</b>	Covers use up to 4 h/day Wear a respirator which reduces the air impurities by at least a factor of 10 (APF >= 10). For further specification, refer to section 8 of the SDS Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Body parts potentially exposed; Two hands (960 cm2)
<b>Professional use of floor care products; CS1-u; Polish / impregnating agent. Manual process; AISE-P406; Polish / impregnating agent. Semi-Automatic process; AISE-P407; CS3-u1; Polish / impregnating agent. Spray and wipe manual process; AISE-P408; Professional use of maintenance products; CS9-u; Stainless steel care. Manual process; AISE-P608 (PROC 10)</b>	Covers use up to 8 h/day Wear a respirator which reduces the air impurities by at least a factor of 20 (APF >= 20). For further specification, refer to section 8 of the SDS Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Body parts potentially exposed; Two hands (960 cm2)
<b>Professional use of maintenance products; CS5-u2; Furniture care product. Spray and wipe manual process; AISE-P602; CS7-u2; Leather care product. Spray and wipe manual process; AISE-P604; CS10-u1; Stainless steel care. Spray and wipe manual process; AISE-P609 (PROC 11)</b>	Covers use up to 0.25 h/day Wear a respirator which reduces the air impurities by at least a factor of 10 (APF >= 10). For further specification, refer to section 8 of the SDS Wear chemically resistant gloves (tested to EN374) in combination with specific activity training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Body parts potentially exposed; Assumes 2 hands and forearms (1500 cm2)
<b>Professional use of maintenance products; CS3-u2; Polish / impregnating agent. Spray and wipe manual process; AISE-P408 (PROC 11)</b>	Covers use up to 1 h/day Wear a respirator which reduces the air impurities by at least a factor of 10 (APF >= 10). For further specification, refer to section 8 of the SDS Wear chemically resistant gloves (tested to EN374) in combination with specific activity training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Body parts potentially exposed; Assumes 2 hands and forearms (1500 cm2)
<b>Professional uses; Mixing or blending in batch processes; Uses in</b>	Covers use up to 8 h/day Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If

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<b>cosmetics/personal care products, perfumes and fragrances (PROC 5)</b>	skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Wear a respirator which reduces the air impurities by at least a factor of 10 (APF >= 10). For further specification, refer to section 8 of the SDS
<b>Professional uses; Transfer of substance or mixture (charging/discharging) at non dedicated-facilities; Uses in cosmetics/personal care products, perfumes and fragrances (PROC 8a)</b>	Covers use up to 8 h/day Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Wear a respirator which reduces the air impurities by at least a factor of 20 (APF >= 20). For further specification, refer to section 8 of the SDS

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

**5.3.1. Environmental release and exposure: GES 5; Professional end-use of polishes and wax blends (ERC 8a)**

Release route	Release rate	Release estimation method
Water	0 kg/day	ERC
Air	0 kg/day	ERC
Soil	0 kg/day	ERC

Protection target	Exposure estimate	RCR
Fresh water	1.65E-4 mg/L (EUSES 2.1.2)	0.026
Sediment (freshwater)	0.034 mg/kg dw (EUSES 2.1.2)	0.026
Marine water	1.58E-5 mg/L (EUSES 2.1.2)	0.025
Sediment (marine water)	3.2E-3 mg/kg dw (EUSES 2.1.2)	0.025
Sewage Treatment Plant	0 mg/L (EUSES 2.1.2)	< 0.01
Agricultural soil	8.48E-5 mg/kg dw (EUSES 2.1.2)	< 0.01
Predator's prey (freshwater)	0.011 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (marine water)	1.05E-3 mg/kg ww (EUSES 2.1.2)	< 0.01
Top predator's prey (marine water)	1.05E-3 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (terrestrial)	2.84E-4 mg/kg ww (EUSES 2.1.2)	< 0.01
Man via environment - Inhalation (systemic effects)	1.01E-6 mg/m³ (EUSES 2.1.2)	< 0.01
Man via environment - Oral	2.69E-5 mg/kg bw/day (EUSES 2.1.2)	< 0.01
Man via environment - combined routes		< 0.01

**5.3.2. Worker exposure: Professional use of maintenance products; CS8-u; Leather care product. Automatic process; AISE-P605 (PROC 2)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.298 mg/m³ (TRA Workers 3.0)	0.121
Dermal, systemic, long term	0.137 mg/kg bw/day (TRA Workers 3.0)	0.165
Dermal, local, long term	0.02 mg/cm² (TRA Workers 3.0)	0.112
Combined, systemic, long term		0.286

**5.3.3. Worker exposure: Professional use of maintenance products; CS8-p; Leather care product. Automatic process; AISE-P605 (PROC 8b)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.119 mg/m³ (TRA Workers 3.0)	0.048
Dermal, systemic, long term	0.137 mg/kg bw/day (TRA Workers 3.0)	0.165
Dermal, local, long term	1E-2 mg/cm² (TRA Workers 3.0)	0.056
Combined, systemic, long term		0.213

**5.3.4. Worker exposure: Professional use of maintenance products; CS4-u; Furniture care product. Manual process; AISE-P601; Furniture care product. Spray and wipe manual process; AISE-P602; CS6-u; Leather care product. Manual process; AISE-P603; CS7-u1; Leather care product. Spray and wipe manual process; AISE-P604; CS10-u1; Stainless steel care. Spray and**

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### wipe manual process; AISE-P609 (PROC 10)

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.894 mg/m³ (TRA Workers 3.0)	0.362
Dermal, systemic, long term	0.274 mg/kg bw/day (TRA Workers 3.0)	0.33
Dermal, local, long term	0.02 mg/cm² (TRA Workers 3.0)	0.112
Combined, systemic, long term		0.692

**5.3.5. Worker exposure: Professional use of floor care products; CS1-u; Polish / impregnating agent. Manual process; AISE-P406; Polish / impregnating agent. Semi-Automatic process; AISE-P407; CS3-u1; Polish / impregnating agent. Spray and wipe manual process; AISE-P408; Professional use of maintenance products; CS9-u; Stainless steel care. Manual process; AISE-P608 (PROC 10)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.745 mg/m³ (TRA Workers 3.0)	0.302
Dermal, systemic, long term	0.274 mg/kg bw/day (TRA Workers 3.0)	0.33
Dermal, local, long term	0.02 mg/cm² (TRA Workers 3.0)	0.112
Combined, systemic, long term		0.632

**5.3.6. Worker exposure: Professional use of maintenance products; CS5-u2; Furniture care product. Spray and wipe manual process; AISE-P602; CS7-u2; Leather care product. Spray and wipe manual process; AISE-P604; CS10-u1; Stainless steel care. Spray and wipe manual process; AISE-P609 (PROC 11)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.596 mg/m³ (TRA Workers 3.0)	0.241

**5.3.7. Worker exposure: Professional use of maintenance products; CS3-u2; Polish / impregnating agent. Spray and wipe manual process; AISE-P408 (PROC 11)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	1.192 mg/m³ (TRA Workers 3.0)	0.483

**5.3.8. Worker exposure: Professional uses; Mixing or blending in batch processes; Uses in cosmetics/personal care products, perfumes and fragrances (PROC 5)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.596 mg/m³ (TRA Workers 3.0)	0.241
Dermal, systemic, long term	0.137 mg/kg bw/day (TRA Workers 3.0)	0.165
Dermal, local, long term	0.02 mg/cm² (TRA Workers 3.0)	0.112
Combined, systemic, long term		0.406

**5.3.9. Worker exposure: Professional uses; Transfer of substance or mixture (charging/discharging) at non dedicated-facilities; Uses in cosmetics/personal care products, perfumes and fragrances (PROC 8a)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.745 mg/m³ (TRA Workers 3.0)	0.302
Dermal, systemic, long term	0.137 mg/kg bw/day (TRA Workers 3.0)	0.165
Dermal, local, long term	1E-2 mg/cm² (TRA Workers 3.0)	0.056
Combined, systemic, long term		0.467

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

Guidance: The total tonnage of all end-uses is covered under GES6. Since the products used by professionals will not differ much from those used by consumers and since the conditions of environmental release are very similar for professionals and consumers, potential environmental exposure to the substance due to professional and private use was combined under GES6.

Scaling instructions: As the environmental release factor depends on site specific operational conditions and risk management measures, Downstream Users (DU) are advised to demonstrate that a safe use is given for the amounts used at their site. Scaling may be a suitable option in this case, (ECHA Guidance for downstream users and Guidance on the compilation of safety data sheets). Scaling is a comparison of linear input parameters and determinants between data presented in the Exposure Scenario (ES) and the data available from the Downstream User to determine the risk characterisation ratios (RCR) under the operational conditions of the DU (eg. quantity of substance used per year and site,

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emission fraction to water, number of emission days).

## 6. ES 6: Consumer use; Washing and Cleaning Products

### 6.1. Title section

ES name: GES 6; Consumer end-use of washing and cleaning products

Product category: Washing and Cleaning Products (PC 35)

#### Environment

1: GES 6; Consumer end-use of washing and cleaning products

ERC 8d, ERC 8a

#### Consumer

2: CS1; Consumer uses; Laundry and dish washing products; LAUNDRY REGULAR (powder, liquid) for consumer use; AISE-C1; LAUNDRY COMPACT (powder, liquid/gel, tablet) for consumer use; AISE-C2; FABRIC CONDITIONERS (liquid regular, liquid concentrate) for consumer use; AISE-C3; LAUNDRY ADDITIVES (powder bleach, liquid bleach, tablet) for consumer use; AISE-C4; HAND DISHWASHING (liquid regular, liquid concentrate) for consumer use; AISE-C5; MACHINE DISHWASHING (powder, liquid, tablet) for consumer use; AISE-C6; LAUNDRY AIDS (ironing aids-starch spray, ironing aids-other) for consumer use; AISE-C12

3: CS2; Consumer uses; Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners); SURFACE CLEANERS (liquid, powder, gel neat, spray neat) for consumer use; AISE-C7; TOILET CLEANERS (powder, liquid, gel, tablet) for consumer use; AISE-C8; CARPET CLEANERS (spray, liquid) for consumer use; AISE-C11; WIPES (bathroom, kitchen, floor) for consumer use; AISE-C15; High Pressure washers/cleaners; AISE-C21; Automotive Care (spray, liquid); AISE-C22

4: CS3; Consumer uses; Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners); SURFACE CLEANERS (liquid, powder, gel neat, spray neat) for consumer use; AISE-C7; OVEN CLEANERS (spray, trigger) for consumer use; AISE-C10; CARPET CLEANERS (spray, liquid) for consumer use; AISE-C11; Automotive Care (spray, liquid); AISE-C22

### 6.2. Conditions of use affecting exposure

#### 6.2.1. Control of environmental exposure: GES 6; Consumer end-use of washing and cleaning products (ERC 8d, ERC 8a)

##### Amount used, frequency and duration of use (or from service life)

Daily local widespread use amount; <=; 5.5E-5; tonnes/day

##### Other conditions affecting environmental exposure

Municipal sewage treatment plant is assumed.

#### 6.2.2. Control of consumer exposure: CS1; Consumer uses; Laundry and dish washing products; LAUNDRY REGULAR (powder, liquid) for consumer use; AISE-C1; LAUNDRY COMPACT (powder, liquid/gel, tablet) for consumer use; AISE-C2; FABRIC CONDITIONERS (liquid regular, liquid concentrate) for consumer use; AISE-C3; LAUNDRY ADDITIVES (powder bleach, liquid bleach, tablet) for consumer use; AISE-C4; HAND DISHWASHING (liquid regular, liquid concentrate) for consumer use; AISE-C5; MACHINE DISHWASHING (powder, liquid, tablet) for consumer use; AISE-C6; LAUNDRY AIDS (ironing aids-starch spray, ironing aids-other) for consumer use; AISE-C12 (PC 35)

##### Product (article) characteristics

Covers concentrations up to 0.15 %

Physical form of product; Liquids

Exposure route; dermal; Yes

Inhalation exposure is considered to be not relevant.

Oral exposure is considered to be not relevant.

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

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Covers use up to 1 events per day
Frequency of use over a year; Frequent
<b>Information and behavioral advice for consumers</b>
Covers adult use.
<b>Other conditions affecting consumers exposure</b>
Assumes that potential dermal contact is limited to hands.
dermal; transfer factor; =; 1

**6.2.3. Control of consumer exposure: CS2; Consumer uses; Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners ); SURFACE CLEANERS (liquid, powder, gel neat, spray neat) for consumer use; AISE-C7; TOILET CLEANERS (powder, liquid, gel, tablet) for consumer use; AISE-C8; CARPET CLEANERS (spray, liquid) for consumer use; AISE-C11; WIPES (bathroom, kitchen, floor) for consumer use; AISE-C15; High Pressure washers/cleaners; AISE-C21; Automotive Care (spray, liquid); AISE-C22 (PC 35)**

<b>Product (article) characteristics</b>
Physical form of product; Liquids
Covers concentrations up to 0.1 %
Exposure route; dermal; Yes
Inhalation exposure is considered to be not relevant.
Oral exposure is considered to be not relevant.
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>
Covers use up to 1 events per day
Frequency of use over a year; Frequent
<b>Information and behavioral advice for consumers</b>
Covers adult use.
<b>Other conditions affecting consumers exposure</b>
Assumes that potential dermal contact is limited to hands.
dermal; transfer factor; =; 1

**6.2.4. Control of consumer exposure: CS3; Consumer uses; Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners); SURFACE CLEANERS (liquid, powder, gel neat, spray neat) for consumer use; AISE-C7; OVEN CLEANERS (spray, trigger) for consumer use; AISE-C10; CARPET CLEANERS (spray, liquid) for consumer use; AISE-C11; Automotive Care (spray, liquid); AISE-C22 (PC 35)**

<b>Product (article) characteristics</b>
Physical form of product; Liquids
Covers concentrations up to 0.1 %
Exposure route; dermal; Yes
Exposure route; Inhalation; Yes
No spraying
Oral exposure is considered to be not relevant.
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>
Exposure duration = 0.2 h/event
Covers use up to 1 events per day
For each use event, covers use amounts up to 30 g/event
Frequency of use over a year; Frequent
<b>Information and behavioral advice for consumers</b>

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Indoor use
Covers adult use.
Other conditions affecting consumers exposure
Assumes that potential dermal contact is limited to hands.
Inhalation; transfer factor; =; 1
dermal; transfer factor; =; 1

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

#### 6.3.1. Environmental release and exposure: GES 6; Consumer end-use of washing and cleaning products (ERC 8d)

Release route	Release rate	Release estimation method
Water	0.055 kg/day	ERC
Air	0.055 kg/day	ERC
Soil	0.011 kg/day	ERC

Protection target	Exposure estimate	RCR
Fresh water	2.35E-3 mg/L (EUSES 2.1.2)	0.367
Sediment (freshwater)	0.477 mg/kg dw (EUSES 2.1.2)	0.367
Marine water	2.34E-4 mg/L (EUSES 2.1.2)	0.365
Sediment (marine water)	0.048 mg/kg dw (EUSES 2.1.2)	0.365
Sewage Treatment Plant	0.022 mg/L (EUSES 2.1.2)	0.022
Agricultural soil	0.036 mg/kg dw (EUSES 2.1.2)	0.14
Predator's prey (freshwater)	0.083 mg/kg ww (EUSES 2.1.2)	0.017
Predator's prey (marine water)	8.29E-3 mg/kg ww (EUSES 2.1.2)	< 0.01
Top predator's prey (marine water)	2.49E-3 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (terrestrial)	0.022 mg/kg ww (EUSES 2.1.2)	< 0.01
Man via environment - Inhalation (systemic effects)	1.13E-6 mg/m³ (EUSES 2.1.2)	< 0.01
Man via environment - Oral	5.23E-4 mg/kg bw/day (EUSES 2.1.2)	< 0.01
Man via environment - combined routes		< 0.01

**6.3.2. Consumer exposure: CS1; Consumer uses; Laundry and dish washing products; LAUNDRY REGULAR (powder, liquid) for consumer use; AISE-C1; LAUNDRY COMPACT (powder, liquid/gel, tablet) for consumer use; AISE-C2; FABRIC CONDITIONERS (liquid regular, liquid concentrate) for consumer use; AISE-C3; LAUNDRY ADDITIVES (powder bleach, liquid bleach, tablet) for consumer use; AISE-C4; HAND DISHWASHING (liquid regular, liquid concentrate) for consumer use; AISE-C5; MACHINE DISHWASHING (powder, liquid, tablet) for consumer use; AISE-C6; LAUNDRY AIDS (ironing aids-starch spray, ironing aids-other) for consumer use; AISE-C12 (PC 35)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0 mg/m³ (TRA Consumers 3.1)	< 0.01
Dermal, systemic, long term	0.214 mg/kg bw/day (TRA Consumers 3.1)	0.51
Oral, systemic, long term	0 mg/kg bw/day (TRA Consumers 3.1)	< 0.01
Combined, systemic, long term		0.51

**6.3.3. Consumer exposure: CS2; Consumer uses; Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners ); SURFACE CLEANERS (liquid, powder, gel neat, spray neat) for consumer use; AISE-C7; TOILET CLEANERS (powder, liquid, gel, tablet) for consumer use; AISE-C8; CARPET CLEANERS (spray, liquid) for consumer use; AISE-C11; WIPES (bathroom, kitchen, floor) for consumer use; AISE-C15; High Pressure washers/cleaners; AISE-C21; Automotive Care (spray, liquid); AISE-C22 (PC 35)**

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Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0 mg/m <sup>3</sup> (TRA Consumers 3.1)	< 0.01
Dermal, systemic, long term	0.143 mg/kg bw/day (TRA Consumers 3.1)	0.34
Oral, systemic, long term	0 mg/kg bw/day (TRA Consumers 3.1)	< 0.01
Combined, systemic, long term		0.34

**6.3.4. Consumer exposure: CS3; Consumer uses; Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners); SURFACE CLEANERS (liquid, powder, gel neat, spray neat) for consumer use; AISE-C7; OVEN CLEANERS (spray, trigger) for consumer use; AISE-C10; CARPET CLEANERS (spray, liquid) for consumer use; AISE-C11; Automotive Care (spray, liquid); AISE-C22 (PC 35)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.013 mg/m <sup>3</sup> (TRA Consumers 3.1)	0.031
Dermal, systemic, long term	0.143 mg/kg bw/day (TRA Consumers 3.1)	0.34
Oral, systemic, long term	0 mg/kg bw/day (TRA Consumers 3.1)	< 0.01
Combined, systemic, long term		0.371

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

Guidance: The environmental exposure to all end-use products (professional and consumer) has been combined. Some products will be completely discharged down the drain (rinse-off cosmetics, laundry detergents) whereas others will not be discharged to the sewer (shoe polish, dry cleaning). By nature air fresheners will end up in the air. By using 100% release to water and 100% to air, all consumer end-use products can be covered in one scenario. The main use of products containing fragrance substances is ERC8a (wide dispersive indoor use). The IFRA guideline (2012) also identifies ERC8d (wide dispersive outdoor use) as being relevant for the consumer end-use of washing and cleaning products (GES6) and consumer end-use of biocides (GES 8). Release rates are more conservative for ERC8d. The release factors to water and air are the same as ERC8a but an additional release of 20% to soil is assumed in the ERC for outdoor use. Therefore the assessment on the basis of ERC8d covers also ERC8a

Scaling instructions: As the environmental release factor depends on site specific operational conditions and risk management measures, Downstream Users (DU) are advised to demonstrate that a safe use is given for the amounts used at their site. Scaling may be a suitable option in this case, (ECHA Guidance for downstream users and Guidance on the compilation of safety data sheets). Scaling is a comparison of linear input parameters and determinants between data presented in the Exposure Scenario (ES) and the data available from the Downstream User to determine the risk characterisation ratios (RCR) under the operational conditions of the DU (eg. quantity of substance used per year and site, emission fraction to water, number of emission days).

## 7. ES 7: Consumer use; Air care products

### 7.1. Title section

ES name: GES 7; Consumer end-use of air care products

Product category: Air care products (PC 3)

Environment	
1: GES 7; Consumer end-use of air care products	ERC 8a
Consumer	
2: CS1; Consumer uses; AIR FRESHENERS AEROSOL (aqueous, non aqueous, concentrated (mini-aerosol, Timed-release aerosols) for consumer use; AISE-C17	PC 3
3: CS2; Consumer uses; AIR FRESHENERS NON AEROSOL (perfume in/on solid substate (gel), candles, diffusers (heated) for consumer use; AISE-C18	PC 3

### 7.2. Conditions of use affecting exposure

#### 7.2.1. Control of environmental exposure: GES 7; Consumer end-use of air care products (ERC 8a)

#### 7.2.2. Control of consumer exposure: CS1; Consumer uses; AIR FRESHENERS AEROSOL (aqueous, non aqueous, concentrated (mini-aerosol, Timed-release aerosols) for consumer use; AISE-C17 (PC 3)

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**Product (article) characteristics**

Covers concentrations up to 0.05 %  
Physical form of product; Liquid for spraying (spraying can)  
Exposure route; dermal; No.  
Exposure route; Inhalation; Yes  
Spraying; Yes  
Oral exposure is considered to be not relevant.

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

Exposure duration = 0.25 h/event  
Covers use up to 1 events per day  
For each use event, covers use amounts up to 10 g/event  
Frequency of use over a year; Frequent

**Information and behavioral advice for consumers**

Indoor use  
Covers adult use.

**Other conditions affecting consumers exposure**

Inhalation; transfer factor; =; 1

**7.2.3. Control of consumer exposure: CS2; Consumer uses; AIR FRESHENERS NON AEROSOL (perfume in/on solid substate (gel), candles, diffusers (heated) for consumer use; AISE-C18 (PC 3)**

**Product (article) characteristics**

Physical form of product; Liquids  
Covers concentrations up to 0.1 %  
Exposure route; dermal; Yes  
Inhalation exposure is considered to be not relevant.  
Oral exposure is considered to be not relevant.

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

Covers use up to 1 events per day  
Frequency of use over a year; Frequent

**Information and behavioral advice for consumers**

Covers adult use.

**Other conditions affecting consumers exposure**

Body parts potentially exposed; Assumes that potential dermal contact is limited to fingertips.  
dermal; transfer factor; =; 1

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

**7.3.1. Environmental release and exposure: GES 7; Consumer end-use of air care products (ERC 8a)**

Release route	Release rate	Release estimation method
Water	0 kg/day	ERC
Air	0 kg/day	ERC
Soil	0 kg/day	ERC

Protection target	Exposure estimate	RCR
Fresh water	1.65E-4 mg/L (EUSES 2.1.2)	0.026
Sediment (freshwater)	0.034 mg/kg dw (EUSES 2.1.2)	0.026

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Marine water	1.58E-5 mg/L (EUSES 2.1.2)	0.025
Sediment (marine water)	3.2E-3 mg/kg dw (EUSES 2.1.2)	0.025
Sewage Treatment Plant	0 mg/L (EUSES 2.1.2)	< 0.01
Agricultural soil	8.48E-5 mg/kg dw (EUSES 2.1.2)	< 0.01
Predator's prey (freshwater)	0.011 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (marine water)	1.05E-3 mg/kg ww (EUSES 2.1.2)	< 0.01
Top predator's prey (marine water)	1.05E-3 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (terrestrial)	2.84E-4 mg/kg ww (EUSES 2.1.2)	< 0.01
Man via environment - Inhalation (systemic effects)	1.01E-6 mg/m³ (EUSES 2.1.2)	< 0.01
Man via environment - Oral	2.69E-5 mg/kg bw/day (EUSES 2.1.2)	< 0.01
Man via environment - combined routes		< 0.01

**7.3.2. Consumer exposure: CS1; Consumer uses; AIR FRESHENERS AEROSOL (aqueous, non aqueous, concentrated (mini-aerosol, Timed-release aerosols) for consumer use; AISE-C17 (PC 3)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.217 mg/m³ (TRA Consumers 3.1)	0.5
Dermal, systemic, long term	0 mg/kg bw/day (TRA Consumers 3.1)	< 0.01
Oral, systemic, long term	0 mg/kg bw/day (TRA Consumers 3.1)	< 0.01
Combined, systemic, long term		0.5

**7.3.3. Consumer exposure: CS2; Consumer uses; AIR FRESHENERS NON AEROSOL (perfume in/on solid substate (gel), candles, diffusers (heated) for consumer use; AISE-C18 (PC 3)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0 mg/m³ (TRA Consumers 3.1)	< 0.01
Dermal, systemic, long term	2.5E-3 mg/kg bw/day (TRA Consumers 3.1)	< 0.01
Oral, systemic, long term	0 mg/kg bw/day (TRA Consumers 3.1)	< 0.01
Combined, systemic, long term		< 0.01

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

Guidance: The total tonnage of all end-uses is covered under GES6. Since the products used by professionals will not differ much from those used by consumers and since the conditions of environmental release are very similar for professionals and consumers, potential environmental exposure to the substance due to professional and private use was combined under GES6.

Scaling instructions: As the environmental release factor depends on site specific operational conditions and risk management measures, Downstream Users (DU) are advised to demonstrate that a safe use is given for the amounts used at their site. Scaling may be a suitable option in this case, (ECHA Guidance for downstream users and Guidance on the compilation of safety data sheets). Scaling is a comparison of linear input parameters and determinants between data presented in the Exposure Scenario (ES) and the data available from the Downstream User to determine the risk characterisation ratios (RCR) under the operational conditions of the DU (eg. quantity of substance used per year and site, emission fraction to water, number of emission days).

**8. ES 8: Consumer use; Biocidal Products**

**8.1. Title section**

ES name: GES 8; Consumer end-use of biocides

Product category: Biocidal Products (PC 8)

Environment	
1: GES 8; Consumer end-use of biocides	ERC 8a
2: GES 8; Consumer end-use of biocides	ERC 8b
Consumer	
3: CS1; Consumer uses; INSECTICIDES (liquid electric, spray neat); AISE-C19	PC 8
4: CS2; Consumer uses; REPELLENTS for consumer use; AISE-C19	PC 8

**8.2. Conditions of use affecting exposure**

**8.2.1. Control of environmental exposure: GES 8; Consumer end-use of biocides (ERC 8a)**

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### 8.2.2. Control of environmental exposure: GES 8; Consumer end-use of biocides (ERC 8b)

### 8.2.3. Control of consumer exposure: CS1; Consumer uses; INSECTICIDES (liquid electric, spray neat); AISE-C19 (PC 8)

Product (article) characteristics
Covers concentrations up to 0.02 %
Physical form of product; Liquids
Exposure route; dermal; Yes
Exposure route; Inhalation; Yes
No spraying
Oral exposure is considered to be not relevant.
Amount used (or contained in articles), frequency and duration of use/exposure
Exposure duration = 0.02 h/event
Covers use up to 1 events per day
For each use event, covers use amounts up to 20 g/event
Frequency of use over a year; Covers use up to ; 2; weeks per year
Information and behavioral advice for consumers
Indoor use
Covers adult use.
Other conditions affecting consumers exposure
Assumes that potential dermal contact is limited to upper part of the body.
Inhalation; transfer factor; =; 1
dermal; transfer factor; =; 1

### 8.2.4. Control of consumer exposure: CS2; Consumer uses; REPELLENTS for consumer use; AISE-C19 (PC 8)

Product (article) characteristics
Physical form of product; Liquids
Covers concentrations up to 0.02 %
Exposure route; dermal; Yes
Exposure route; Inhalation; Yes
Spraying; Yes
Oral exposure is considered to be not relevant.
Amount used (or contained in articles), frequency and duration of use/exposure
Exposure duration = 0.02 h/event
Covers use up to 1 events per day
For each use event, covers use amounts up to 20 g/event
Frequency of use over a year; Covers use up to ; 2; weeks per year
Information and behavioral advice for consumers
Outdoor use
Covers adult use.
Other conditions affecting consumers exposure
Assumes that potential dermal contact is limited to upper part of the body.
Inhalation; transfer factor; =; 1
dermal; transfer factor; =; 1

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

#### 8.3.1. Environmental release and exposure: GES 8; Consumer end-use of biocides (ERC 8a)

Release route	Release rate	Release estimation method
Water	0 kg/day	ERC

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<b>Air</b>	0 kg/day	ERC
<b>Soil</b>	0 kg/day	ERC

Protection target	Exposure estimate	RCR
Fresh water	1.65E-4 mg/L (EUSES 2.1.2)	0.026
Sediment (freshwater)	0.034 mg/kg dw (EUSES 2.1.2)	0.026
Marine water	1.58E-5 mg/L (EUSES 2.1.2)	0.025
Sediment (marine water)	3.2E-3 mg/kg dw (EUSES 2.1.2)	0.025
Sewage Treatment Plant	0 mg/L (EUSES 2.1.2)	< 0.01
Agricultural soil	8.48E-5 mg/kg dw (EUSES 2.1.2)	< 0.01
Predator's prey (freshwater)	0.011 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (marine water)	1.05E-3 mg/kg ww (EUSES 2.1.2)	< 0.01
Top predator's prey (marine water)	1.05E-3 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (terrestrial)	2.84E-4 mg/kg ww (EUSES 2.1.2)	< 0.01
Man via environment - Inhalation (systemic effects)	1.01E-6 mg/m³ (EUSES 2.1.2)	< 0.01
Man via environment - Oral	2.69E-5 mg/kg bw/day (EUSES 2.1.2)	< 0.01
Man via environment - combined routes		< 0.01

**8.3.2. Environmental release and exposure: GES 8; Consumer end-use of biocides (ERC 8b)**

Release route	Release rate	Release estimation method
<b>Water</b>	0 kg/day	ERC
<b>Air</b>	0 kg/day	ERC
<b>Soil</b>	0 kg/day	ERC

Protection target	Exposure estimate	RCR
Fresh water	1.65E-4 mg/L (EUSES 2.1.2)	0.026
Sediment (freshwater)	0.034 mg/kg dw (EUSES 2.1.2)	0.026
Marine water	1.58E-5 mg/L (EUSES 2.1.2)	0.025
Sediment (marine water)	3.2E-3 mg/kg dw (EUSES 2.1.2)	0.025
Sewage Treatment Plant	0 mg/L (EUSES 2.1.2)	< 0.01
Agricultural soil	8.48E-5 mg/kg dw (EUSES 2.1.2)	< 0.01
Predator's prey (freshwater)	0.011 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (marine water)	1.05E-3 mg/kg ww (EUSES 2.1.2)	< 0.01
Top predator's prey (marine water)	1.05E-3 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (terrestrial)	2.84E-4 mg/kg ww (EUSES 2.1.2)	< 0.01
Man via environment - Inhalation (systemic effects)	1.01E-6 mg/m³ (EUSES 2.1.2)	< 0.01
Man via environment - Oral	2.69E-5 mg/kg bw/day (EUSES 2.1.2)	< 0.01
Man via environment - combined routes		< 0.01

**8.3.3. Consumer exposure: CS1; Consumer uses; INSECTICIDES (liquid electric, spray neat); AISE-C19 (PC 8)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	1.98E-3 mg/m³ (TRA Consumers 3.1)	< 0.01
Dermal, systemic, long term	0.292 mg/kg bw/day (TRA Consumers 3.1)	0.694
Oral, systemic, long term	0 mg/kg bw/day (TRA Consumers 3.1)	< 0.01
Combined, systemic, long term		0.699

**8.3.4. Consumer exposure: CS2; Consumer uses; REPELLENTS for consumer use; AISE-C19 (PC 8)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.038 mg/m³ (TRA Consumers 3.1)	0.088
Dermal, systemic, long term	0.292 mg/kg bw/day (TRA Consumers 3.1)	0.694
Oral, systemic, long term	0 mg/kg bw/day (TRA Consumers 3.1)	< 0.01
Combined, systemic, long term		0.782

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

Guidance: The total tonnage of all end-uses is covered under GES6. Since the products used by professionals will not differ much from those used by consumers and since the conditions of environmental release are very similar for professionals and consumers, potential environmental exposure to the substance due to professional and private use was combined under GES6.

Scaling instructions: As the environmental release factor depends on site specific operational conditions and risk management measures, Downstream Users (DU) are advised to demonstrate that a safe use is given for the amounts used at their site. Scaling may be a suitable option in this case, (ECHA Guidance for downstream users and Guidance on the compilation of safety data sheets). Scaling is a comparison of linear input parameters and determinants between data presented in the Exposure Scenario (ES) and the data available from the Downstream User to determine the risk characterisation ratios (RCR) under the operational conditions of the DU (eg. quantity of substance used per year and site, emission fraction to water, number of emission days).

**9. ES 9: Consumer use; Polishes and Wax Blends**

**9.1. Title section**

ES name: GES 9; Consumer end-use of polishes and wax blends

Product category: Polishes and Wax Blends (PC 31)

<b>Environment</b>	
1: GES 9; Consumer end-use of polishes and wax blends	ERC 8a
<b>Consumer</b>	
2: CS1; Consumer uses; Polishes and wax blends; FURNITURE FLOOR and LEATHER CARE (spray, liquid) for consumer use; AISE-C20	PC 31
3: CS2; Consumer uses; Polishes and wax blends; FURNITURE FLOOR and LEATHER CARE (spray, liquid) for consumer use; AISE-C20	PC 31

**9.2. Conditions of use affecting exposure**

**9.2.1. Control of environmental exposure: GES 9; Consumer end-use of polishes and wax blends (ERC 8a)**

**9.2.2. Control of consumer exposure: CS1; Consumer uses; Polishes and wax blends; FURNITURE FLOOR and LEATHER CARE (spray, liquid) for consumer use; AISE-C20 (PC 31)**

<b>Product (article) characteristics</b>
Covers concentrations up to 0.5 %
Physical form of product; Liquids
Exposure route; dermal; Yes
Exposure route; Inhalation; Yes
No spraying
Oral exposure is considered to be not relevant.
<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>
Exposure duration = 4 h/event
Covers use up to 1 events per day
For each use event, covers use amounts up to 10 g/event
Frequency of use over a year; Frequent
<b>Information and behavioral advice for consumers</b>
Indoor use
Covers adult use.
<b>Other conditions affecting consumers exposure</b>
Assumes that potential dermal contact is limited to inside hands / one hand / palm of hands.
Inhalation; transfer factor; =; 1
dermal; transfer factor; =; 1

**9.2.3. Control of consumer exposure: CS2; Consumer uses; Polishes and wax blends;**

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**FURNITURE FLOOR and LEATHER CARE (spray, liquid) for consumer use; AISE-C20 (PC 31)****Product (article) characteristics**

Physical form of product; Liquids

Covers concentrations up to 8E-3 %

Exposure route; dermal; Yes

Exposure route; Inhalation; Yes

Spraying; Yes

Oral exposure is considered to be not relevant.

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

Exposure duration = 1 h/event

Covers use up to 1 events per day

For each use event, covers use amounts up to 135 g/event

Frequency of use over a year; Covers use up to ; 2; weeks per year

**Information and behavioral advice for consumers**

Indoor use

**Other conditions affecting consumers exposure**

Assumes that potential dermal contact is limited to inside hands / one hand / palm of hands.

Inhalation; transfer factor; =; 1

dermal; transfer factor; =; 1

**9.3. Exposure estimation and reference to its source****9.3.1. Environmental release and exposure: GES 9; Consumer end-use of polishes and wax blends (ERC 8a)**

Release route	Release rate	Release estimation method
Water	0 kg/day	ERC
Air	0 kg/day	ERC
Soil	0 kg/day	ERC

Protection target	Exposure estimate	RCR
Fresh water	1.65E-4 mg/L (EUSES 2.1.2)	0.026
Sediment (freshwater)	0.034 mg/kg dw (EUSES 2.1.2)	0.026
Marine water	1.58E-5 mg/L (EUSES 2.1.2)	0.025
Sediment (marine water)	3.2E-3 mg/kg dw (EUSES 2.1.2)	0.025
Sewage Treatment Plant	0 mg/L (EUSES 2.1.2)	< 0.01
Agricultural soil	8.48E-5 mg/kg dw (EUSES 2.1.2)	< 0.01
Predator's prey (freshwater)	0.011 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (marine water)	1.05E-3 mg/kg ww (EUSES 2.1.2)	< 0.01
Top predator's prey (marine water)	1.05E-3 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (terrestrial)	2.84E-4 mg/kg ww (EUSES 2.1.2)	< 0.01
Man via environment - Inhalation (systemic effects)	1.01E-6 mg/m³ (EUSES 2.1.2)	< 0.01
Man via environment - Oral	2.69E-5 mg/kg bw/day (EUSES 2.1.2)	< 0.01
Man via environment - combined routes		< 0.01

**9.3.2. Consumer exposure: CS1; Consumer uses; Polishes and wax blends; FURNITURE FLOOR and LEATHER CARE (spray, liquid) for consumer use; AISE-C20 (PC 31)**

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	7.35E-3 mg/m³ (TRA Consumers 3.1)	0.017
Dermal, systemic, long term	0.357 mg/kg bw/day (TRA Consumers 3.1)	0.851
Oral, systemic, long term	0 mg/kg bw/day (TRA Consumers 3.1)	< 0.01
Combined, systemic, long term		0.868

**9.3.3. Consumer exposure: CS2; Consumer uses; Polishes and wax blends; FURNITURE**

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Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.338 mg/m³ (TRA Consumers 3.1)	0.776
Oral, systemic, long term	0 mg/kg bw/day (TRA Consumers 3.1)	< 0.01

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

Guidance: The total tonnage of all end-uses is covered under GES6. Since the products used by professionals will not differ much from those used by consumers and since the conditions of environmental release are very similar for professionals and consumers, potential environmental exposure to the substance due to professional and private use was combined under GES6.

Scaling instructions: As the environmental release factor depends on site specific operational conditions and risk management measures, Downstream Users (DU) are advised to demonstrate that a safe use is given for the amounts used at their site. Scaling may be a suitable option in this case, (ECHA Guidance for downstream users and Guidance on the compilation of safety data sheets). Scaling is a comparison of linear input parameters and determinants between data presented in the Exposure Scenario (ES) and the data available from the Downstream User to determine the risk characterisation ratios (RCR) under the operational conditions of the DU (eg. quantity of substance used per year and site, emission fraction to water, number of emission days).

## 10. ES 10: Consumer use; Various products

### 10.1. Title section

ES name: GES 10; Consumer (and Professional) end-use of cosmetics; Only includes environmental exposure, assessment of human exposure is exempt from REACH as it is already covered by the European Cosmetic Regulation No 1223/2009

Product category: Perfumes, Fragrances (PC 28), Cosmetics, personal care products (PC 39)

Environment	
1: GES 10; Consumer (and Professional) end-use of cosmetics	ERC 8a
Consumer	
2: Perfumes, fragrances	PC 28
3: Cosmetics, personal care products	PC 39

### 10.2. Conditions of use affecting exposure

#### 10.2.1. Control of environmental exposure: GES 10; Consumer (and Professional) end-use of cosmetics (ERC 8a)

#### 10.2.2. Control of consumer exposure: Perfumes, fragrances (PC 28)

#### 10.2.3. Control of consumer exposure: Cosmetics, personal care products (PC 39)

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

#### 10.3.1. Environmental release and exposure: GES 10; Consumer (and Professional) end-use of cosmetics (ERC 8a)

Release route	Release rate	Release estimation method
Water	0 kg/day	ERC
Air	0 kg/day	ERC
Soil	0 kg/day	ERC

Protection target	Exposure estimate	RCR
Fresh water	1.65E-4 mg/L (EUSES 2.1.2)	0.026
Sediment (freshwater)	0.034 mg/kg dw (EUSES 2.1.2)	0.026
Marine water	1.58E-5 mg/L (EUSES 2.1.2)	0.025
Sediment (marine water)	3.2E-3 mg/kg dw (EUSES 2.1.2)	0.025
Sewage Treatment Plant	0 mg/L (EUSES 2.1.2)	< 0.01

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Agricultural soil	8.48E-5 mg/kg dw (EUSES 2.1.2)	< 0.01
Predator's prey (freshwater)	0.011 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (marine water)	1.05E-3 mg/kg ww (EUSES 2.1.2)	< 0.01
Top predator's prey (marine water)	1.05E-3 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (terrestrial)	2.84E-4 mg/kg ww (EUSES 2.1.2)	< 0.01
Man via environment - Inhalation (systemic effects)	1.01E-6 mg/m <sup>3</sup> (EUSES 2.1.2)	< 0.01
Man via environment - Oral	2.69E-5 mg/kg bw/day (EUSES 2.1.2)	< 0.01
Man via environment - combined routes		< 0.01

### 10.3.2. Consumer exposure: Perfumes, fragrances (PC 28)

### 10.3.3. Consumer exposure: Cosmetics, personal care products (PC 39)

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

Guidance: The total tonnage of all end-uses is covered under GES6. Since the products used by professionals will not differ much from those used by consumers and since the conditions of environmental release are very similar for professionals and consumers, potential environmental exposure to the substance due to professional and private use was combined under GES6.

Scaling instructions: As the environmental release factor depends on site specific operational conditions and risk management measures,

Downstream Users (DU) are advised to demonstrate that a safe use is given for the amounts used at their site. Scaling may be a suitable option in this case, (ECHA Guidance for downstream users and Guidance on the compilation of safety data sheets). Scaling is a comparison of linear input parameters and determinants between data presented in the Exposure Scenario (ES) and the data available from the Downstream User to determine the risk characterisation ratios (RCR) under the operational conditions of the DU (eg. quantity of substance used per year and site, emission fraction to water, number of emission days).

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