according to Regulation (EC) No. 1907/2006

## Givaudan

**JAVANOL** 

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

1.1 Product identifier

Sales No. : 8754013

**JAVANOL** 

Substance name : (1-METHYL-2-(1,2,2-TRIMETHYLBICYCLO(3.1.0)-HEX-3-

YLMETHYL)CYCLOPROPYL)METHANOL( MIXTURE OF

DIASTEREOISOMERS)

Identifier

CAS-No. : 198404-98-7 EC-No. : 427-900-1 Formula : C15-H26-O

REACH Registration Number : 01-0000017424-73

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)

Short-term (acute) aquatic hazard, H400: Very toxic to aquatic life.

Administrative information:

Report Information: SDS\_EU/EN/GHS\_SDS\_EU\_REGION/40 Sales & Distribution Information: VE01/FR/CH11/01

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Category 1

Long-term (chronic) aguatic hazard, H410: Very toxic to aquatic life with long lasting

Category 1 effects.

#### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms

Signal word : Warning

Hazard statements : H410 Very toxic to aquatic life with long lasting

effects.

Precautionary statements : **Prevention:** 

P273 Avoid release to the environment.

Response:

P391 Collect spillage.

Disposal:

P501 Dispose of contents/ container to an

approved waste disposal plant.

### 2.3 Other hazards

Hazards not Otherwise : None

Classified.

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.

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

Administrative information:

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### 3.1 Substances

Chemical name	CAS-No. EC-No. REACH Registration Number	Concentration [Percent by weight]	M-Factor, SCL, ATE
(1-methyl-2-(1,2,2- trimethylbicyclo(3.1.0)-hex- 3- ylmethyl)cyclopropyl)meth anol	198404-98-7 427-900-1 01-0000017424-73	>= 90 - <= 100	M-Factor (Acute aquatic toxicity):1 M-Factor (Chronic aquatic toxicity):1

### **SECTION 4. First aid measures**

## 4.1 Description of first aid measures

General advice : Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical

advice

If symptoms persist, call a physician.

In case of skin contact : Take off contaminated clothing and shoes immediately.

If on skin, rinse well with water.

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 Risks : no data available

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

Treatment : no data available

Administrative information:

Report Information: SDS\_EU/EN/GHS\_SDS\_EU\_REGION/40

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## **SECTION 5. Firefighting measures**

### 5.1 Extinguishing media

Suitable extinguishing media : Dry chemical

> Alcohol-resistant foam Carbon dioxide (CO2)

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

### 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 : Wipe up with absorbent material (e.g. cloth, fleece).

Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

Not applicable

### SECTION 7. Handling and storage

### 7.1 Precautions for safe handling

Administrative information:

Report Information: SDS\_EU/EN/GHS\_SDS\_EU\_REGION/40

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Advice on safe handling : For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

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 Advice on common storage : Store Warm 40℃/105℃ Dry, well ventilated, preferably full, hermetically sealed

: Protect against light. Formation of crystals is possible Handle

Warm at 40℃/105°F mix once

Storage class (TRGS 510)

: 10 Combustible liquids

: No decomposition if stored and applied as directed. Other data

### 7.3 Specific end use(s)

Please refer to attached exposure scenarios.

### SECTION 8. Exposure controls/personal protection

#### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

**DNEL** End Use: Consumer use

Exposure routes: Dermal

Potential health effects: Long-term systemic effects

Value: 0,625 mg/kg bw/day

**DNEL** End Use: Consumer use

Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 1,09 mg/m3

Administrative information:

Report Information: SDS EU/EN/GHS SDS EU REGION/40

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**DNEL** End Use: Consumer use

Exposure routes: Oral

Potential health effects: Long-term systemic effects

Value: 0,625 mg/kg bw/day

End Use: Workers **DNEL** 

Exposure routes: Dermal

Potential health effects: Long-term systemic effects

Value: 1,75 mg/kg bw/day

End Use: Workers **DNEL** 

Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 6,17 mg/m3

**PNEC** Fresh water

Value: 0,0031 mg/l

**PNEC** Marine water

Value: 0,00031 mg/l

**PNEC** Oral

Value: 8,333 mg/kg

**PNEC** Fresh water sediment

Value: 1,97 mg/kg dry weight (d.w.)

**PNEC** Marine sediment

Value: 0,197 mg/kg dry weight (d.w.)

**PNEC** Soil

Value: 0,392 mg/kg dry weight (d.w.)

**PNEC** Sewage treatment plant

Value: 10,0 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 prod-uct'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

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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 glasses 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.

Other skin protection : Wear working clothes covering arms and legs.

Respiratory protection : Under normal use conditions, no respiratory protection should

be needed. However, if discomfort is experienced, use an

approved air-purifying respirator.

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

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respective authorities.

## SECTION 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state : liquid

Form : viscous liquid

Colour : colorless to Pale yellow

Taste : not determined

Odour : woody
Odour Threshold : 0,0177 ng/l

Flash point : 136 ℃ Method: Pensky-Martens closed cup

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 : 255 ℃ Method: DIN 51794

Decomposition temperature : no data available
Molecular weight : 222,37 g/mol
pH : no data available

Melting point : < -50 ℃

Boiling point :  $268 \, \mathrm{C}$  at 1 013 hPa Vapour pressure :  $0,0003 \, \mathrm{hPa}$  at  $20 \, \mathrm{C}$ 

Method: OECD Test Guideline 104

0,07 hPa at 50 ℃

Method: OECD Test Guideline 104

octanol/water Method: OECD Test Guideline 117log Pow: 4.8

Method: OECD Test Guideline 117

Viscosity, dynamic : 67,2 mPa.s Viscosity, kinematic : no data available Relative vapour density : no data available Surface tension : 41,4 mN/m at 20 ℃

Method: OECD Test Guideline 115

Evaporation rate : no data available Explosive properties : no data available

#### 9.2 Other information

Administrative information:

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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

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 401

Acute inhalation toxicity : This information is not available.

**Acute dermal toxicity** : LD50 Rat

Dose: > 2 000 mg/kg

Method: OECD Test Guideline 402

of administration)

Acute toxicity (other routes : No data is available on the product itself.

Skin corrosion/irritation

Skin irritation : Species: Rabbit

Administrative information:

Report Information: SDS\_EU/EN/GHS\_SDS\_EU\_REGION/40

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No skin irritation

Method: OECD Test Guideline 404

Serious eye damage/eye irritation

Eye irritation : Species: Rabbit

No eye irritation

Method: OECD Test Guideline 405

Respiratory or skin sensitisation

Sensitisation : HRIPT Human

Result: Not sensitizing at 4 % in Dimethyl phthalate

Maximisation Test Guinea pig

Result: Not sensitizing

Method: OECD Test Guideline 406

Germ cell mutagenicity

Genotoxicity in vitro : Chromosome aberration test in vitro

negative

Method: Mutagenicity (in vitro mammalian cytogenetic test)

Ames test negative

Method: Mutagenicity (Salmonella typhimurium - reverse

mutation assay)

Ames test negative

Method: Mutagenicity (Escherichia coli - reverse mutation

assay)

In vitro mammalian cell gene mutation test

negative

Method: OECD Test Guideline 476

Carcinogenicity

Carcinogenicity : No data is available on the product itself.

Reproductive toxicity

Not classified based on available information.

Administrative information:

Report Information: SDS\_EU/EN/GHS\_SDS\_EU\_REGION/40 Sales & Distribution Information: VE01/FR/CH11/01

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Effects on fertility : Test Type: reproductive and developmental toxicity study

Species: Rat, male and female

General Toxicity - Parent: NOAEL: 250 mg/kg body weight General Toxicity F1: NOAEL: 250 mg/kg body weight

Method: OECD Test Guideline 421

GLP: yes

### Target Organ Systemic Toxicant - Single exposure

Target Organ Systemic : No data

: No data is available on the product itself.

Toxicant - Single exposure

### **Target Organ Systemic Toxicant - Repeated exposure**

Target Organ Systemic : Species: Rat, male and female

Toxicant - Repeated NOAEL: 100 mg/kg

exposure Method: OECD Test Guideline 407

Repeated dose (28 days) toxicity (oral)

**Aspiration hazard** 

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

**Phototoxicity** 

Phototoxicity : UV-VIS absorption spectra

Result:negative

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

Administrative information:

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### **SECTION 12. Ecological information**

## 12.1 Toxicity

**Product:** 

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): 1 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

GLP: yes

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 0,38 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

: ErC50 (Selenastrum capricornutum (green algae)): 0,74 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Toxicity to fish (Chronic

toxicity)

NOEC: 0,055 mg/l Exposure time: 30 d

Species: Danio rerio (zebra fish) Method: OECD Test Guideline 210

GLP: yes

Toxicity to daphnia and other : NOEC: 0,031 mg/l

aquatic invertebrates (Chronic toxicity)

Exposure time: 21 d

Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211

GLP: yes

Toxicity to microorganisms EC10: 100 mg/l

Exposure time: 912 h

### **Components:**

### Cyclopropanemethanol, 1-methyl-2-[(1,2,2-trimethylbicyclo[3.1.0]hex-3-yl)methyl]-:

M-Factor (Acute aquatic

toxicity)

M-Factor (Chronic aquatic

toxicity)

### 12.2 Persistence and degradability

**Product:** 

Biodegradability Result: Not readily biodegradable.

Administrative information:

Report Information: SDS\_EU/EN/GHS\_SDS\_EU\_REGION/40 Sales & Distribution Information: VE01/FR/CH11/01

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Biodegradation: 0 % Exposure time: 28 d

Method: OECD Test Guideline 301 F

GLP: yes

Result: Not inherently biodegradable.

Biodegradation: 0 % Exposure time: 48 d

Method: OECD Test Guideline 302 C

GLP: yes

### 12.3 Bioaccumulative potential

no data available

## 12.4 Mobility in soil

### **Product:**

Distribution among : log Koc: 3,8

environmental compartments Method: OECD Test Guideline 121

### 12.5 Results of PBT and vPvB assessment

#### **Product:**

Assessment : 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.

### 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.

Very toxic to aquatic life with long lasting effects.

Administrative information:

Report Information: SDS\_EU/EN/GHS\_SDS\_EU\_REGION/40

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### **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

**ADR** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

(Methyl-trimethylbicyclo-hexylmethyl-cyclopropyl methanol)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, **RID** 

(Methyl-trimethylbicyclo-hexylmethyl-cyclopropyl methanol)

**IMDG** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Methyl-trimethylbicyclo-hexylmethyl-cyclopropyl methanol)

**IATA** Environmentally hazardous substance, liquid, n.o.s.

(Methyl-trimethylbicyclo-hexylmethyl-cyclopropyl methanol)

## 14.3 Transport hazard class(es)

**ADR** 9 **RID** 9 **IMDG** 9 **IATA** 9

Administrative information:

Report Information: SDS\_EU/EN/GHS\_SDS\_EU\_REGION/40

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

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### 14.4 Packing group

## 14.5 Environmental hazards

**ADR** 

Environmentally hazardous : yes

RIL

Environmentally hazardous : yes

**IMDG** 

Marine pollutant : yes

IATA (Passenger)

Environmentally hazardous : yes

IATA (Cargo)

Environmentally hazardous : yes

### 14.6 Special precautions for user

**ADR** 

Tunnel restriction code : (-)

**IMDG** 

IMDG Code Segregation : None

Group

### 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 : Neither banned nor restricted

Concern for Authorisation (Article 59).

Major Accident Hazard : ENVIRONMENTAL HAZARDS

Legislation E1

Quantity 1: 100 t Quantity 2: 200 t

Water hazard class : WGK 2 obviously hazardous to water

(Germany) Code Number: 8 097

Administrative information:

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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
	All Europe	+44 1235 239670		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
Europe	Norway	+47 2103 4452		India	+65 3158 1198 000 800 100 7479
	Greece	+30 21 1198 3182	APAC	Pakistan	+65 3158 1329
	Portugal	+351 30880 4750		Bangladesh	+65 3158 1200
	Denmark	+45 8988 2286		Philippines	+63 2 8231 2149
	Sweden	+46 8 566 42573		Vietnam	+84 28 4458 2388
	Poland	+48 22 307 3690		Korea	+65 3158 1285
	Czech replublic	+420 228 882 830		South Korea	+82 2 3479 8401
	Finland	+358 9 7479 0199		Australia	+61 2 8014 4558
	All Middle East/Africa	+44 1235 239671		New Zealand	+64 9 929 1483
Middle East/Africa	Bahrain and Middle East	+44 1235 239671		China	+86 532 8388 9090
	Africa/South Africa	+27 21 300 2732		Mexico	+52 55 5004 8763
	USA and Canada	+1 866 928 0789	LATAM	Brazil	+55 11 3197 5891
NOAM	USA and Canada	+1 215 207 0061		Chile	+56 2 2582 9336
	USA and	+1 202 464 2554		Colombia	+57 1 508 7337

Administrative information:

Report Information: SDS\_EU/EN/GHS\_SDS\_EU\_REGION/40 Sales & Distribution Information: VE01/FR/CH11/01

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	Canada				
Global	Global	+44 1865 407333		Argentina	+54 11 5984 3690

Administrative information:

Report Information: SDS\_EU/EN/GHS\_SDS\_EU\_REGION/40 Sales & Distribution Information: VE01/FR/CH11/01 Shipping Order Information: 30 360 028/25 943 201

according to Regulation (EC) No. 1907/2006

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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; AIIC - 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.

according to Regulation (EC) No. 1907/2006

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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); medium; Large scale; AISE SPERC 2.1.a.v1	ERC 2
2: GES 1; 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 4: CS2; Storage; IFRA F-2	PROC 8b PROC 1
5: CS3; Mixing operations; Closed systems; Filling of articles/equipment; With sample collection; IFRA F-3 6: CS4; Mixing operations; Open systems; Filling of articles/equipment; With sample collection; IFRA F-4	PROC 3 PROC 5
7: CS5; Laboratory activities; Use as laboratory reagent; IFRA F-5 8: CS6; Transfer of substance or mixture into small containers (dedicated filling line, including weighing); IFRA F-6	
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); medium; Large scale; AISE SPERC 2.1.a.v1 (ERC 2)

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

Annual amount per site <= 4.9 tonnes/year

Daily amount per site <= 0.02 tonnes/day

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 1; 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 <= 8.4E-3 tonnes/day

Annual amount per site <= 2.1 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 ℃

#### Specific conditions of use per contributing scenario

Contributing scenario	Specific conditions of use
CS1; Transfer of substance or mixture	Covers concentrations up to 25 %
(charging/discharging) at dedicated	Covers use up to 1 h/day
facilities; IFRA F-1 (PROC 8b)	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

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	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.
CS2; Storage; IFRA F-2 (PROC 1)	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.
	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.
CS3; Mixing operations; Closed	Covers concentrations up to 100 %
systems; Filling of articles/equipment;	Covers use up to 4 h/day
With sample collection; IFRA F-3	Room ventilation; Basic; Up to 3 air change per hour
(PROC 3)	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
004.15.1	hands.; For further specification, refer to section 8 of the SDS.
CS4; Mixing operations; Open systems	·
Filling of articles/equipment; With	Covers use up to 4 h/day
sample collection; IFRA F-4 (PROC 5)	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 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.
CS5; Laboratory activities; Use as	Covers concentrations up to 100 %
•	·
laboratory reagent; IFRA F-5 (PROC 15)	
	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.
CS6; Transfer of substance or mixture	Covers concentrations up to 25 %
into small containers (dedicated filling	Covers use up to 1 h/day
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line, including weighing); IFRA F-6	Room ventilation; Basic; Up to 3 air change per hour
(PROC 9)	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.
CS7; Equipment cleaning and	Covers concentrations up to 25 %
maintenance; IFRA F-7 (PROC 8a)	Covers use up to 4 h/day
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	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

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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); medium; Large scale; AISE SPERC 2.1.a.v1 (ERC 2)

Release route	Release rate	Release estimation method
Water	0.039 kg/day	Estimated release factor
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Air	0.49 kg/day	ERC
<b>[</b> "	0.45 kg/day	ENO
Soil	0 kg/day	Estimated release factor

Protection target	Exposure estimate	RCR
Fresh water	1.16E-3 mg/L (EUSES 2.1.2)	0.374
Sediment (freshwater)	0.735 mg/kg dw (EUSES 2.1.2)	0.373
Marine water	1.15E-4 mg/L (EUSES 2.1.2)	0.372
Sediment (marine water)	0.073 mg/kg dw (EUSES 2.1.2)	0.372
Sewage Treatment Plant	0.011 mg/L (EUSES 2.1.2)	< 0.01
Agricultural soil	0.335 mg/kg dw (EUSES 2.1.2)	0.855
Predator's prey (freshwater)	0.019 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (marine water)	1.87E-3 mg/kg ww (EUSES 2.1.2)	< 0.01
Top predator's prey (marine water)	5.75E-4 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (terrestrial)	0.493 mg/kg ww (EUSES 2.1.2)	0.059
Man via environment - Inhalation (systemic effects)	9.37E-5 mg/m³ (EUSES 2.1.2)	< 0.01
Man via environment - Oral	4.94E-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 1; 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	0.042 kg/day	Estimated release factor
Air	0.21 kg/day	ERC
Soil	0 kg/day	Estimated release factor
	3 47	

Protection target	Exposure estimate	RCR
Fresh water	1.24E-3 mg/L (EUSES 2.1.2)	0.399
Sediment (freshwater)	0.785 mg/kg dw (EUSES 2.1.2)	0.398
Marine water	1.23E-4 mg/L (EUSES 2.1.2)	0.398
Sediment (marine water)	0.078 mg/kg dw (EUSES 2.1.2)	0.397
Sewage Treatment Plant	0.012 mg/L (EUSES 2.1.2)	< 0.01
Agricultural soil	0.358 mg/kg dw (EUSES 2.1.2)	0.913
Predator's prey (freshwater)	0.02 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (marine water)	1.98E-3 mg/kg ww (EUSES 2.1.2)	< 0.01
Top predator's prey (marine water)	5.98E-4 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (terrestrial)	0.524 mg/kg ww (EUSES 2.1.2)	0.063
Man via environment - Inhalation (systemic effects)	4.04E-5 mg/m³ (EUSES 2.1.2)	< 0.01
Man via environment - Oral	4.72E-3 mg/kg bw/day (EUSES 2.1.2)	< 0.01
Man via environment - combined routes		< 0.01

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## 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	0.278 mg/m³ (TRA Workers 3.0)	0.045
Dermal, systemic, long term	0.823 mg/kg bw/day (TRA Workers 3.0)	0.47
Combined, systemic, long term		0.515

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

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	1.29E-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
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	1.665 mg/m³ (TRA Workers 3.0)	0.27
Dermal, systemic, long term	0.069 mg/kg bw/day (TRA Workers 3.0)	0.039
Combined, systemic, long term		0.309

## 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	0.278 mg/m³ (TRA Workers 3.0)	0.045
Dermal, systemic, long term	0.686 mg/kg bw/day (TRA Workers 3.0)	0.392
Combined, systemic, long term		0.437

## 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	0.463 mg/m³ (TRA Workers 3.0)	0.075
Dermal, systemic, long term	0.034 mg/kg bw/day (TRA Workers 3.0)	0.019
Combined, systemic, long term		0.094

## 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	0.555 mg/m³ (TRA Workers 3.0)	0.09
Dermal, systemic, long term	0.412 mg/kg bw/day (TRA Workers 3.0)	0.235
Combined, systemic, long term		0.325

### 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	0.333 mg/m³ (TRA Workers 3.0)	0.054
Dermal, systemic, long term	0.411 mg/kg bw/day (TRA Workers 3.0)	0.235
Combined, systemic, long term		0.289

### 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).

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

## 2.1. Title section

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

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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	ERC 2
2.1.a.v2	
5: IFRA SG-5; AISE SPERC 2.1.k.v2; Cosmetics Europe / AISE SPERC 2.3.b.v2; Cosmetics Europe SPERC	ERC 2
2.1.b.v2	
6: IFRA SG-6; AISE SPERC 2.1.I.v2; Cosmetics Europe / AISE SPERC 2.3.c.v2; Cosmetics Europe SPERC	ERC 2
2.1.c.v2	
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	PROC 2
with equivalent containment conditions	
16: CS7; Transfer of substance or mixture into small containers (dedicated filling line, including weighing); AISE M-	PROC 9
17: CS8; Tabletting, 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 <= 0.037 tonnes/day

Annual amount per site <= 9.375 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 <= 0.014 tonnes/day

Annual amount per site <= 3.5 tonnes/year

Conditions and measures related to biological sewage treatment plant

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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 2.1.i.v2 (ERC 2)

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

Daily amount per site <= 0.011 tonnes/day

Annual amount per site <= 2.875 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 <= 0.011 tonnes/day

Annual amount per site <= 2.625 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 <= 4.5E-3 tonnes/day

Annual amount per site <= 1.125 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.I.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)

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Daily amount per site <= 4.5E-3 tonnes/day

Annual amount per site <= 1.125 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

## 2.2.7. 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 <= 0.016 tonnes/day

Annual amount per site <= 4 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 <= 1.5E-3 tonnes/day

Annual amount per site <= 0.375 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

outer conditions uncoung civil crimental expec

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

iauid

Technical and organisational conditions and measures

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.

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

Respiratory protection; No.

Use suitable eye protection.

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Other conditions affecting workers exposure

Indoor use

Assumes process temperature up to 40 ℃

### Specific conditions of use per contributing scenario

	In the second se
Contributing scenario	Specific conditions of use
CS1; Transfer of substance or mixture	Covers concentrations up to 25 %
(charging/discharging) at dedicated	Covers use up to 1 h/day
facilities; AISE M-6 (PROC 8b)	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 '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.
CS2; Laboratory activities; Use as	Covers concentrations up to 25 %
laboratory reagent; AISE M-9 (PROC 15)	Covers use up to 0.25 h/day
	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.
CS3; Storage; AISE M-1 (PROC 1)	Covers concentrations up to 25 %
	Covers use up to 1 h/day
	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.
CS4; Mixing operations; Closed	Covers concentrations up to 25 %
systems; Filling of articles/equipment;	Covers use up to 4 h/day
With sample collection; AISE M-3	Provide specifically designed and maintained LEV (fixed capturing hood type, on-tool extraction or
(PROC 3)	enclosing hood type). Ensure effectiveness is at least 90%
(11000)	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.
CCE. Miving or blanding in batch	·
CS5; Mixing or blending in batch	Covers concentrations up to 25 %
processes; Open systems; With sample	1 ' '
collection; AISE M-5 (PROC 5)	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.
CS6; Equipment cleaning and	Covers concentrations up to 1 %
maintenance (PROC 8a)	Covers use up to 4 h/day
	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.
Chemical production or refinery in	Covers concentrations up to 25 %
closed continuous process with	Covers use up to 1 h/day
occasional controlled exposure or	Provide specifically designed and maintained LEV (fixed capturing hood type, on-tool extraction or
processes with equivalent containment	enclosing hood type). Ensure effectiveness is at least 90%
conditions (PROC 2)	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
	order containing of the 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.
CS7; Transfer of substance or mixture	Covers concentrations up to 1 %
into small containers (dedicated filling	Covers use up to 1 h/day
line, including weighing); AISE M-7	Provide specifically designed and maintained LEV (fixed capturing hood type, on-tool extraction or
(PROC 9)	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.
CS8; Tabletting, compression,	Covers concentrations up to 1 %
extrusion or pelletisation; AISE M-8	Covers use up to 8 h/day
(PROC 14)	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.

### 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	3.75E-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	1.68E-4 mg/L (EUSES 2.1.2)	0.054
Sediment (freshwater)	0.106 mg/kg dw (EUSES 2.1.2)	0.054
Marine water	1.64E-5 mg/L (EUSES 2.1.2)	0.053
Sediment (marine water)	0.01 mg/kg dw (EUSES 2.1.2)	0.053
Sewage Treatment Plant	1.06E-3 mg/L (EUSES 2.1.2)	< 0.01
Agricultural soil	0.032 mg/kg dw (EUSES 2.1.2)	0.082
Predator's prey (freshwater)	4.24E-3 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (marine water)	4.07E-4 mg/kg ww (EUSES 2.1.2)	< 0.01
Top predator's prey (marine water)	2.83E-4 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (terrestrial)	0.07 mg/kg ww (EUSES 2.1.2)	< 0.01
Man via environment - Inhalation (systemic effects)	3.75E-7 mg/m³ (EUSES 2.1.2)	< 0.01
Man via environment - Oral	3.96E-4 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	0.014 kg/day	Estimated release factor
Air	0 kg/day	Estimated release factor
0 - 11	0.1.71	
Soil	0 kg/day	Estimated release factor

Protection target	Exposure estimate	RCR
Fresh water	4.54E-4 mg/L (EUSES 2.1.2)	0.147

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Sediment (freshwater)	0.288 mg/kg dw (EUSES 2.1.2)	0.146
Marine water	4.5E-5 mg/L (EUSES 2.1.2)	0.145
Sediment (marine water)	0.029 mg/kg dw (EUSES 2.1.2)	0.145
Sewage Treatment Plant	3.95E-3 mg/L (EUSES 2.1.2)	< 0.01
Agricultural soil	0.119 mg/kg dw (EUSES 2.1.2)	0.304
Predator's prey (freshwater)	8.46E-3 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (marine water)	8.29E-4 mg/kg ww (EUSES 2.1.2)	< 0.01
Top predator's prey (marine water)	3.68E-4 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (terrestrial)	0.192 mg/kg ww (EUSES 2.1.2)	0.023
Man via environment - Inhalation (systemic effects)	3.97E-7 mg/m³ (EUSES 2.1.2)	< 0.01
Man via environment - Oral	1.45E-3 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
Water	0.023 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	7.06E-4 mg/L (EUSES 2.1.2)	0.228
Sediment (freshwater)	0.448 mg/kg dw (EUSES 2.1.2)	0.227
Marine water	7.02E-5 mg/L (EUSES 2.1.2)	0.226
Sediment (marine water)	0.045 mg/kg dw (EUSES 2.1.2)	0.226
Sewage Treatment Plant	6.49E-3 mg/L (EUSES 2.1.2)	< 0.01
Agricultural soil	0.196 mg/kg dw (EUSES 2.1.2)	0.499
Predator's prey (freshwater)	0.012 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (marine water)	1.2E-3 mg/kg ww (EUSES 2.1.2)	< 0.01
Top predator's prey (marine water)	4.42E-4 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (terrestrial)	0.298 mg/kg ww (EUSES 2.1.2)	0.036
Man via environment - Inhalation (systemic effects)	4.17E-7 mg/m³ (EUSES 2.1.2)	< 0.01
Man via environment - Oral	2.38E-3 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
Water	0.011 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	3.56E-4 mg/L (EUSES 2.1.2)	0.115
Sediment (freshwater)	0.226 mg/kg dw (EUSES 2.1.2)	0.115
Marine water	3.52E-5 mg/L (EUSES 2.1.2)	0.114
Sediment (marine water)	0.022 mg/kg dw (EUSES 2.1.2)	0.113
Sewage Treatment Plant	2.96E-3 mg/L (EUSES 2.1.2)	< 0.01
Agricultural soil	0.09 mg/kg dw (EUSES 2.1.2)	0.228
Predator's prey (freshwater)	7.02E-3 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (marine water)	6.85E-4 mg/kg ww (EUSES 2.1.2)	< 0.01

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Top predator's prey (marine water)	3.39E-4 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (terrestrial)	0.15 mg/kg ww (EUSES 2.1.2)	0.018
Man via environment - Inhalation (systemic effects)	3.9E-7 mg/m³ (EUSES 2.1.2)	< 0.01
Man via environment - Oral	1.09E-3 mg/kg bw/day (EUSES 2.1.2)	< 0.01
Man via environment - combined routes		< 0.01

## 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
Water	9E-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	3.14E-4 mg/L (EUSES 2.1.2)	0.101
Sediment (freshwater)	0.2 mg/kg dw (EUSES 2.1.2)	0.101
Marine water	3.1E-5 mg/L (EUSES 2.1.2)	0.1
Sediment (marine water)	0.02 mg/kg dw (EUSES 2.1.2)	0.1
Sewage Treatment Plant	2.54E-3 mg/L (EUSES 2.1.2)	< 0.01
Agricultural soil	0.077 mg/kg dw (EUSES 2.1.2)	0.196
Predator's prey (freshwater)	6.41E-3 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (marine water)	6.23E-4 mg/kg ww (EUSES 2.1.2)	< 0.01
Top predator's prey (marine water)	3.26E-4 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (terrestrial)	0.132 mg/kg ww (EUSES 2.1.2)	0.016
Man via environment - Inhalation (systemic effects)	3.86E-7 mg/m³ (EUSES 2.1.2)	< 0.01
Man via environment - Oral	9.36E-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.I.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
Water	0.018 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	5.66E-4 mg/L (EUSES 2.1.2)	0.183
Sediment (freshwater)	0.359 mg/kg dw (EUSES 2.1.2)	0.182
Marine water	5.62E-5 mg/L (EUSES 2.1.2)	0.181
Sediment (marine water)	0.036 mg/kg dw (EUSES 2.1.2)	0.181
Sewage Treatment Plant	5.08E-3 mg/L (EUSES 2.1.2)	< 0.01
Agricultural soil	0.153 mg/kg dw (EUSES 2.1.2)	0.391
Predator's prey (freshwater)	0.01 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (marine water)	9.93E-4 mg/kg ww (EUSES 2.1.2)	< 0.01
Top predator's prey (marine water)	4.01E-4 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (terrestrial)	0.239 mg/kg ww (EUSES 2.1.2)	0.029
Man via environment - Inhalation (systemic effects)	4.06E-7 mg/m³ (EUSES 2.1.2)	< 0.01
Man via environment - Oral	1.86E-3 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)

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Release route	Release rate	Release estimation method
Water	0 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	6.28E-5 mg/L (EUSES 2.1.2)	0.02
Sediment (freshwater)	0.04 mg/kg dw (EUSES 2.1.2)	0.02
Marine water	5.87E-6 mg/L (EUSES 2.1.2)	0.019
Sediment (marine water)	3.72E-3 mg/kg dw (EUSES 2.1.2)	0.019
Sewage Treatment Plant	0 mg/L (EUSES 2.1.2)	< 0.01
Agricultural soil	2.32E-4 mg/kg dw (EUSES 2.1.2)	< 0.01
Predator's prey (freshwater)	2.7E-3 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (marine water)	2.52E-4 mg/kg ww (EUSES 2.1.2)	< 0.01
Top predator's prey (marine water)	2.52E-4 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (terrestrial)	0.026 mg/kg ww (EUSES 2.1.2)	< 0.01
Man via environment - Inhalation (systemic effects)	3.67E-7 mg/m³ (EUSES 2.1.2)	< 0.01
Man via environment - Oral	1.15E-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
Water	0.03 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	9.01E-4 mg/L (EUSES 2.1.2)	0.291
Sediment (freshwater)	0.572 mg/kg dw (EUSES 2.1.2)	0.29
Marine water	8.97E-5 mg/L (EUSES 2.1.2)	0.289
Sediment (marine water)	0.057 mg/kg dw (EUSES 2.1.2)	0.289
Sewage Treatment Plant	8.47E-3 mg/L (EUSES 2.1.2)	< 0.01
Agricultural soil	0.255 mg/kg dw (EUSES 2.1.2)	0.651
Predator's prey (freshwater)	0.015 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (marine water)	1.49E-3 mg/kg ww (EUSES 2.1.2)	< 0.01
Top predator's prey (marine water)	4.99E-4 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (terrestrial)	0.381 mg/kg ww (EUSES 2.1.2)	0.046
Man via environment - Inhalation (systemic effects)	4.32E-7 mg/m³ (EUSES 2.1.2)	< 0.01
Man via environment - Oral	3.1E-3 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	0.278 mg/m³ (TRA Workers 3.0)	0.045
Dermal, systemic, long term	0.823 mg/kg bw/day (TRA Workers 3.0)	0.47
Combined, systemic, long term		0.515

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

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Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.278 mg/m³ (TRA Workers 3.0)	0.045
Dermal, systemic, long term	0.02 mg/kg bw/day (TRA Workers 3.0)	0.012
Combined, systemic, long term		0.057

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

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.011 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
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	0.999 mg/m³ (TRA Workers 3.0)	0.162
Dermal, systemic, long term	0.041 mg/kg bw/day (TRA Workers 3.0)	0.024
Combined, systemic, long term		0.186

## 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	1.665 mg/m³ (TRA Workers 3.0)	0.27
Dermal, systemic, long term	0.411 mg/kg bw/day (TRA Workers 3.0)	0.235
Combined, systemic, long term		0.505

#### 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	0.555 mg/m³ (TRA Workers 3.0)	0.09
Dermal, systemic, long term	0.137 mg/kg bw/day (TRA Workers 3.0)	0.078
Combined, systemic, long term		0.168

## 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	0.111 mg/m³ (TRA Workers 3.0)	0.018
Dermal, systemic, long term	0.082 mg/kg bw/day (TRA Workers 3.0)	0.047
Combined, systemic, long term		0.065

## 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	0.093 mg/m³ (TRA Workers 3.0)	0.015
Dermal, systemic, long term	0.069 mg/kg bw/day (TRA Workers 3.0)	0.039
Combined, systemic, long term		0.054

## 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	0.463 mg/m³ (TRA Workers 3.0)	0.075
Dermal, systemic, long term	0.034 mg/kg bw/day (TRA Workers 3.0)	0.02
Combined, systemic, long term		0.095

### 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

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## Givaudan

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Version 28.0 Re

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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).

## 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; AlSE-P803; CS19-u; Foam cleaner. Semi-Automatic without venting process; AlSE-P807; CS22-u; Animal housing care. Semi-Automatic process; AlSE-P809; CS20-u; Disinfection product. Fogging and gassing Semi-automatic process; AlSE-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	PROC 8b

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process; AISE-P809; CS21-p; Disinfection product. Semi-automatic process; AISE-P810

17: Industrial use of food beverage and pharmaceutical products; CS18-p; Foam cleaner. Semi-Automatic with PROC 8b venting process; AISE-P806

18: Industrial use of vehicle cleaning products; CS9-u2; Car wash product. Spray and wipe manual process; AISE- PROC 10 P711; CS12-u2; Boat cleaner. Manual process; AISE-P713; CS11-u; Boat cleaner. Spray and wipe manual 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

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

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

Other conditions affecting workers exposure

Assumes process temperature up to 40 ℃

#### Specific conditions of use per contributing scenario

Contributing scenario	Specific conditions of use
Industrial use of food beverage and	Covers use up to 8 h/day
pharmaceutical products; CS13-u; Food	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).
process cleaner. Cleaning In place (CIP)	Local exhaust ventilation; No.
process; AISE-P801; CS17-u;	Respiratory protection; No.
Defoaming product. Automatic	Body parts potentially exposed; One hand face only (240 cm2)
process; AISE-P805 (PROC 1)	Indoor use
Industrial use of laundry products;	Covers use up to 8 h/day
CS1-u; Laundry detergent. Automatic	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).
process; AISE-P101; CS2-u;	Local exhaust ventilation; No.
Conditioner (softner/starch). Automatic	Respiratory protection; No.
process; AISE-P104; CS3-u; Laundry	Body parts potentially exposed; Two hands face only (480 cm2)
aid (gasing). Automatic process; AISE-	Indoor use
P107; CS4-u; Laundry aid (non-gasing).	
Automatic process; AISE-P110 (PROC	
2)	
Industrial use; Dedicated equipment;	Covers use up to 4 h/day
Pharmaceuticals; CS21-u; Disinfection	Room ventilation; Basic; Up to 3 air change per hour
product. Semi-automatic process;	Provide specifically designed and maintained LEV (fixed capturing hood type, on-tool extraction or
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AISE-P810 (PROC 4)	enclosing hood type). Ensure effectiveness is at least 90%
	Respiratory protection; No.
	Body parts potentially exposed; Two hands face only (480 cm2)
	Indoor use
Industrial use of vehicle cleaning	Covers use up to 8 h/day
products; CS5-u; Train cleaner. Semi-	
	Room ventilation; Basic; Up to 3 air change per hour
Automatic process; AISE-P707; CS6-u; Aeroplane cleaner. Semi-Automatic	Local exhaust ventilation; No.
process; AISE-P708; CS7-u; Car wash	Respiratory protection; No.
product. Semi-Automatic process;	Body parts potentially exposed; Two hands face only (480 cm2) Outdoor use
AISE-P709; CS10-u; Dewaxing product.	Outdoor use
Semi-Automatic process; AISE-P712;	
CS14-u; Food process cleaner. Semi	
=	
closed cleaning process; AISE-P802 (PROC 4)	
(11004)	
Industrial was of water treatment	Causara usa usa ta O h /dau
Industrial use of water treatment	Covers use up to 8 h/day
products; CS24-u; Preservation and	Room ventilation; Basic; Up to 3 air change per hour
	Local exhaust ventilation; No.
AISE-P904; CS23-u; Sanitation agent.	Respiratory protection; No.
Waste water; AISE-P905 (PROC 4)	Body parts potentially exposed; Two hands face only (480 cm2)
to describe and a first transfer to	Outdoor use
Industrial use of vehicle cleaning	Covers use up to 1 h/day
products; CS8-u; Car wash product.	Room ventilation; Basic; Up to 3 air change per hour
Spray and rinse process; AISE-P710	Local exhaust ventilation; No.
(PROC 7)	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; Assumes 2 hands and forearms (1500 cm2)
In description of each tale at a set of	Outdoor use
Industrial use of vehicle cleaning	Covers use up to 1 h/day
products; CS12-u1; Car wash product.	Room ventilation; Basic; Up to 3 air change per hour
Spray and wipe manual process; AISE-	Local exhaust ventilation; No.
P711; CS9-u1; Boat cleaner. Spray and	Wear a respirator which reduces the air impurities by at least a factor of 10 (APF >= 10). For further
wipe manual process; AISE-P714	specification, refer to section 8 of the SDS
(PROC 7)	Body parts potentially exposed; Assumes 2 hands and forearms (1500 cm2)
	Outdoor use
Industrial use of food beverage and	Covers use up to 8 h/day
pharmaceutical products; CS18-u;	Room ventilation; Basic; Up to 3 air change per hour
Foam cleaner. Semi-Automatic with	Provide enclosing hood with very high effectiveness (such as fume cupboard) or effective ventilation
venting process; AISE-P806 (PROC 7)	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 >= 10). For further
	specification, refer to section 8 of the SDS
	Body parts potentially exposed; Assumes 2 hands and forearms (1500 cm2)
Industrial upo of food becomes and	Indoor use
Industrial use of food beverage and	Covers use up to 8 h/day
pharmaceutical products; CS15-u;	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).
•	Local exhaust ventilation; No.
spray process; AISE-P803; CS19-u;	Wear a respirator which reduces the air impurities by at least a factor of 20 (APF >= 20). For further
Foam cleaner. Semi-Automatic without	specification, refer to section 8 of the SDS
venting process; AISE-P807; CS22-u;	Body parts potentially exposed; Assumes 2 hands and forearms (1500 cm2)
•	Indoor use
process; AISE-P809; CS20-u; Disinfection product. Fogging and	
gassing Semi-automatic process; AISE- P811 (PROC 7)	
Industrial use of facado/surface	Covers use up to 8 h/day
Industrial use of façade/surface	Covers use up to 8 h/day
cleaning products; CS25-u;	Room ventilation; Basic; Up to 3 air change per hour
Façade/surface cleaner. High pressure	Local exhaust ventilation; No.
process; AISE-P906; CS26-u;	Wear a respirator which reduces the air impurities by at least a factor of 20 (APF >= 20). For further
Façade/surface cleaner. Medium	specification, refer to section 8 of the SDS

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pressure process; AISE-P907 (PROC 7) Body parts potentially exposed; Assumes 2 hands and forearms (1500 cm2) Outdoor use Industrial use of laundry products; Covers use up to 0.25 h/day CS1-p; Laundry detergent. Automatic Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). process; AISE-P101; CS2-p; \_ocal exhaust ventilation: No. Conditioner (softner/starch). Automatic Respiratory protection; No. process; AISE-P104; CS3-p; Laundry Body parts potentially exposed; Two hands (960 cm2) aid (gasing). Automatic process; AISE-Indoor use 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) Industrial use of water treatment Covers use up to 0.25 h/day products; CS23-p; Preservation and Room ventilation; Basic; Up to 3 air change per hour . sanitation agent . Drink and pool water; Local exhaust ventilation: No. AISE-P904; CS24-p; Sanitation agent. Respiratory protection; No. Waste water; AISE-P905; Industrial use Body parts potentially exposed; Two hands (960 cm2) of façade/surface cleaning products; Outdoor use CS25-p; Façade/surface cleaner. High pressure process; AISE-P906; CS26-p; Façade/surface cleaner. Medium pressure process; AISE-P907 (PROC Industrial use of vehicle cleaning Covers use up to 1 h/day products; CS5-p; Train cleaner. Semi-Room ventilation; Basic; Up to 3 air change per hour Automatic process; AISE-P707; CS6-p; Local exhaust ventilation: No. Aeroplane cleaner. Semi-Automatic Respiratory protection; No. process; AISE-P708; CS7-p; Car wash Body parts potentially exposed; Two hands (960 cm2) product. Semi-Automatic process; Outdoor use 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) Industrial use of vehicle cleaning Covers use up to 1 h/day products; CS9-p; Car wash product. Room ventilation; Basic; Up to 3 air change per hour Spray and wipe manual process; AISE-Local exhaust ventilation; No. P711; CS11-p; Boat cleaner. Manual Respiratory protection; No. process; AISE-P713; CS12-p; Boat Body parts potentially exposed; Two hands (960 cm2) cleaner. Spray and wipe manual Outdoor use process; AISE-P714 (PROC 8b) Industrial use of food beverage and Covers use up to 1 h/day pharmaceutical products; CS20-p; Room ventilation; Basic; Up to 3 air change per hour Animal housing care. Semi-Automatic \_ocal exhaust ventilation; No.

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process; AISE-P809; CS21-p;	Respiratory protection; No.
Disinfection product. Semi-automatic	Body parts potentially exposed; Two hands (960 cm2)
process; AISE-P810 (PROC 8b)	Indoor use
Industrial use of food beverage and	Covers use up to 1 h/day
pharmaceutical products; CS18-p;	Room ventilation; Basic; Up to 3 air change per hour
Foam cleaner. Semi-Automatic with	Provide enclosing hood with very high effectiveness (such as fume cupboard) or effective ventilation
venting process; AISE-P806 (PROC 8b)	by spray booth according to EN 16985. Ensure effectiveness is at least 95%.
, ,	Respiratory protection; No.
	Body parts potentially exposed; Two hands (960 cm2)
	Indoor use
Industrial use of vehicle cleaning	Covers use up to 8 h/day
products; CS9-u2; Car wash product.	Room ventilation; Basic; Up to 3 air change per hour
Spray and wipe manual process; AISE-	Local exhaust ventilation; No.
P711; CS12-u2; Boat cleaner. Manual	Wear a respirator which reduces the air impurities by at least a factor of 10 (APF >= 10). For further
process; AISE-P713; CS11-u; Boat	specification, refer to section 8 of the SDS
cleaner. Spray and wipe manual	Body parts potentially exposed; Two hands (960 cm2)
process; AISE-P714 (PROC 10)	Outdoor use
Industrial use of food beverage and	Covers use up to 8 h/day
pharmaceutical products; CS16-u;	Room ventilation; Basic; Up to 3 air change per hour
Chain maintenance product. Automatic	Provide specifically designed and maintained LEV (fixed capturing hood type, on-tool extraction or
drip and brush process; AISE-P804	enclosing hood type). Ensure effectiveness is at least 90%
(PROC 13)	Respiratory protection; No.
	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
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	6.47E-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
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 (nongasing). Automatic process; AISE-P110 (PROC 2)

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.647 mg/m³ (TRA Workers 3.0)	0.105
Dermal, systemic, long term	0.014 mg/kg bw/day (TRA Workers 3.0)	< 0.01
Combined, systemic, long term		0.113

### 3.3.4. Worker exposure: Industrial use; Dedicated equipment; Pharmaceuticals; CS21-u;

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#### Disinfection product. Semi-automatic process; AISE-P810 (PROC 4)

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.278 mg/m³ (TRA Workers 3.0)	0.045
Dermal, systemic, long term	0.069 mg/kg bw/day (TRA Workers 3.0)	0.039
Combined, systemic, long term		0.084

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	3.237 mg/m³ (TRA Workers 3.0)	0.525
Dermal, systemic, long term	0.069 mg/kg bw/day (TRA Workers 3.0)	0.039
Combined, systemic, long term		0.564

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	3.237 mg/m³ (TRA Workers 3.0)	0.525
Dermal, systemic, long term	0.069 mg/kg bw/day (TRA Workers 3.0)	0.039
Combined, systemic, long term		0.564

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
Inhalation, systemic, long term	1.295 mg/m³ (TRA Workers 3.0)	0.21
Dermal, systemic, long term	0.429 mg/kg bw/day (TRA Workers 3.0)	0.245
Combined, systemic, long term		0.455

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	1.295 mg/m³ (TRA Workers 3.0)	0.21
Dermal, systemic, long term	0.429 mg/kg bw/day (TRA Workers 3.0)	0.245
Combined, systemic, long term		0.455

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	0.463 mg/m³ (TRA Workers 3.0)	0.075
Dermal, systemic, long term	0.429 mg/kg bw/day (TRA Workers 3.0)	0.245
Combined, systemic, long term		0.32

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
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Inhalation, systemic, long term	3.238 mg/m³ (TRA Workers 3.0)	0.525
Dermal, systemic, long term	0.429 mg/kg bw/day (TRA Workers 3.0)	0.245
Combined, systemic, long term		0.77

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
Inhalation, systemic, long term	3.238 mg/m³ (TRA Workers 3.0)	0.525
Dermal, systemic, long term	0.429 mg/kg bw/day (TRA Workers 3.0)	0.245
Combined, systemic, long term		0.77

3.3.12. Worker exposure: 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 (nongasing). 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	0.324 mg/m³ (TRA Workers 3.0)	0.052
Dermal, systemic, long term	0.137 mg/kg bw/day (TRA Workers 3.0)	0.078
Combined, systemic, long term		0.131

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; 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	0.324 mg/m³ (TRA Workers 3.0)	0.052
Dermal, systemic, long term	0.137 mg/kg bw/day (TRA Workers 3.0)	0.078
Combined, systemic, long term		0.131

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	0.647 mg/m³ (TRA Workers 3.0)	0.105
Dermal, systemic, long term	0.137 mg/kg bw/day (TRA Workers 3.0)	0.078
Combined, systemic, long term		0.183

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	0.647 mg/m³ (TRA Workers 3.0)	0.105

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Dermal, systemic, long term	0.137 mg/kg bw/day (TRA Workers 3.0)	0.078
Combined, systemic, long term		0.183

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	0.925 mg/m³ (TRA Workers 3.0)	0.15
Dermal, systemic, long term	0.137 mg/kg bw/day (TRA Workers 3.0)	0.078
Combined, systemic, long term		0.228

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	0.046 mg/m³ (TRA Workers 3.0)	< 0.01
Dermal, systemic, long term	0.137 mg/kg bw/day (TRA Workers 3.0)	0.078
Combined, systemic, long term		0.086

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	0.647 mg/m³ (TRA Workers 3.0)	0.105
Dermal, systemic, long term	0.274 mg/kg bw/day (TRA Workers 3.0)	0.157
Combined, systemic, long term		0.262

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	0.925 mg/m³ (TRA Workers 3.0)	0.15
Dermal, systemic, long term	0.137 mg/kg bw/day (TRA Workers 3.0)	0.078
Combined, systemic, long term		0.228

#### 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)

Administrative information:

Report Information: SDS\_EU/EN/GHS\_SDS\_EU\_REGION/40 Sales & Distribution Information: VE01/FR/CH11/01

according to Regulation (EC) No. 1907/2006

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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 4: Professional use of laundry products; CS6-u; Laundry aid (non-gasing). Manual process; AISE-P112 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 2 PROC 4 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 9: 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 PROC 8a
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 disinfactant. Manual process; AISE-P314; CS26-p; Surface disinfactant. 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
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	PROC 8a
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	PROC 8b PROC 10
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	e PROG 10
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	PROC 10 PROC 10

Administrative information:

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process; AISE-P305; CS17-u1; Sanitary cleaner. Spray and wipe manual process; AISE-P306; CS23-u; Glass

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cleaner. Manual process; AISE-P312; CS24-u1; Glass cleaner. Spray and wipe manual process; AISE-P313; CS25-u; Surface disinfactant. Manual process; AISE-P314; CS26-u1; Surface disinfactant. Spray and rinse manual process; AISE-P315; CS27-u; Metal cleaning agent. Manual process; AISE-P316; 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; CS35u; 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 17: Professional use of general surface cleaning products; CS19-u1; Descaling agent. Spray and rinse manual PROC 10 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 18: Professional use of vehicle cleaning products; CS41-u1; Car wash product. Spray and wipe manual process; PROC 10 AISE-P703; CS43-u; Boat cleaner. Manual process; AISE-P705; CS44-u1; Boat cleaner. Spray and wipe manual process; AISE-P706 19: Professional use of façade/surface cleaning products; CS47-u1; Façade/surface cleaner. Medium pressure PROC 10 process: AISE-P902 20: Professional use of vehicle cleaning products; CS40-u; Car wash product. Spray and rinse process; AISE-PROC 11 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 disinfactant. 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 21: Professional use of general surface cleaning products; CS19-u2; Descaling agent. Spray and rinse manual PROC 11 process; AISE-P308; CS22-u2; Oven/Grill Cleaner. Spray and wipe manual process; AISE-P311 22: Professional use of vehicle cleaning products; CS41-u2; Car wash product. Spray and wipe manual process; PROC 11 AISE-P703; CS44-u2; Boat cleaner. Spray and wipe manual process; AISE-P706 23: Professional use of façade/surface cleaning products; CS47-u2; Façade/surface cleaner. Medium pressure PROC 11 process: AISE-P902 24: Professional use of façade/surface cleaning products; CS46-u; Façade/surface cleaner. High pressure process; PROC 11 AISE-P901 25: Professional use of maintenance products; CS37; Drain unblocker. Manual process; AISE-P606; CS38; Drain PROC 13 cleaner, Manual process; AISE-P607 26: 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)

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

Daily local widespread use amount; <=; 0; tonnes/day

#### 4.2.2. Control of worker exposure

Conditions of use applicable to all contributing scenarios

Product (article) characteristics

Liquid

Technical and organisational conditions and measures

Occupational Health and Safety Management System; Basic
Local exhaust ventilation; No.

Other conditions affecting workers exposure

Administrative information:

Assumes process temperature up to 40 ℃

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

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#### Specific conditions of use per contributing scenario

Contributing scenario	Specific conditions of use
Professional use of laundry products;	Covers concentrations up to 1 %
CS1-u; Laundry detergent. Semi	Covers use up to 8 h/day
automatic process; AISE-P102; CS3-u;	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).
Conditioner (softner/starch). Semi	Respiratory protection; No.
automatic process; AISE-P105; CS4-u;	Use suitable eye protection.
Laundry aid (gasing). Semi automatic	Personal protection; dermal; No.
process; AISE-P108; CS5-u; Laundry	Body parts potentially exposed; One hand face only (240 cm2)
aid (non-gasing). Semi automatic	Indoor use
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)	
Professional use of dishwashing	Covers concentrations up to 1 %
products; CS9-u; Dishwash product.	Covers use up to 8 h/day
Automatic process; AISE-P202 (PROC	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).
2)	Respiratory protection; No.
	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;	Covers concentrations up to 1 %
CS6-u; Laundry aid (non-gasing).	Covers use up to 0.25 h/day
Manual process; AISE-P112 (PROC 4)	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).
	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
Professional use of vehicle cleaning	Covers concentrations up to 1 %
products; Semi-automated task; CS39-	Covers use up to 8 h/day
u; Car wash product. Semi-Automatic	Room ventilation; Basic; Up to 3 air change per hour
process; AISE-P701; CS42-u; Dewaxing	Personal protection; dermal; No.
product. Semi-Automatic process;	Wear a respirator which reduces the air impurities by at least a factor of 10 (APF >= 10). For further
AISE-P704 (PROC 4)	specification, refer to section 8 of the SDS
, , , ,	Use suitable eye protection.
	Body parts potentially exposed; Two hands face only (480 cm2)
	Outdoor use
Professional use of laundry products;	Covers concentrations up to 0.1 %
CS1-p; Laundry detergent. Semi	Covers use up to 0.25 h/day
automatic process; AISE-P102; CS3-p;	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).
Conditioner (softner/starch). Semi	Respiratory protection; No.
automatic process; AISE-P105; CS4-p;	Use suitable eye protection.
Laundry aid (gasing). Semi automatic	Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If
process; AISE-P108; CS5-p; Laundry	skin contamination is expected to extend to other parts of the body, then these body parts should
aid (non-gasing). Semi automatic	also be protected with impervious garments in a manner equivalent to those described for the
process; AISE-P111; CS6-p; Laundry	hands.; For further specification, refer to section 8 of the SDS.
aid (non-gasing). Manual process;	Body parts potentially exposed; Two hands (960 cm2)
AISE-P112; Professional use of	Indoor use
dishwashing products; CS10-p;	
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Administrative information:

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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)

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) Covers concentrations up to 1 %

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).

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

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

Covers concentrations up to 1 %

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).

Respiratory protection; No.

Use suitable eye protection.

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. 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.

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; AISEP409; CS35-p; Carpet cleaner. SemiAutomatic process; AISE-P410;
Professional use of general surface
cleaning products; CS12-p; General
purpose cleaner. Manual process;

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

Professional use of floor care products; Covers concentrations up to 1 %

Covers use up to 1 h/day

Room ventilation; Basic; Up to 3 air change per hour

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. Respiratory protection; No.

Use suitable eye protection.

Body parts potentially exposed; Two hands (960 cm2)

Outdoor use

Administrative information:

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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 disinfactant. Manual process; AISE-P314; CS26-p; Surface disinfactant. 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

Covers use up to 1 h/day

Room ventilation; Basic; Up to 3 air change per hour

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.

Covers concentrations up to 1 %

Face/eye protection; No.

Body parts potentially exposed; Two hands (960 cm2)

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)

Covers concentrations up to 1 %

Covers use up to 1 h/day

Room ventilation; Basic; Up to 3 air change per hour

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. Use suitable eye protection.

Body parts potentially exposed; Two hands (960 cm2)

Outdoor use

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

Professional use of general surface

Cleaner. Manual process; AISE-P310

(PROC 10)

Covers concentrations up to 1 % Covers use up to 0.25 h/day

Room ventilation; Basic; Up to 3 air change per hour

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

Covers concentrations up to 1 % cleaning products; CS21-u; Oven/Grill

Covers use up to 1 h/day

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

Respiratory protection; No.

Use suitable eve 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

Covers concentrations up to 1 %

Administrative information:

Professional use of laundry products;

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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 wipe. Manual process; AISE-P317; Professional use of floor care products CS36-u1; Carpet cleaner. Spray and brush manual process; AISE-P411

Covers use up to 4 h/day

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

surface cleaning products; CS28-u; Wet 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. Body parts potentially exposed; Two hands (960 cm2) Indoor use

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

Covers concentrations up to 1 %

Covers use up to 4 h/day

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

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 disinfactant. Manual process;

AISE-P314; CS26-u1; Surface disinfactant. Spray and rinse manual process; AISE-P315; CS27-u; Metal cleaning agent. Manual process; AISE-

P316; CS29-u; Floor cleaner. Semi-Automatic process; AISE-P401; CS30u1; 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

Professional use of floor care products; Covers concentrations up to 1 %

Covers use up to 8 h/day

Room ventilation: Basic: Up to 3 air change per hour

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

Face/eye protection; No.

Body parts potentially exposed; Two hands (960 cm2)

Outdoor use

Administrative information:

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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)

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 concentrations up to 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). 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 eve 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 concentrations up to 1 % Covers use up to 8 h/day

Room ventilation; Basic; Up to 3 air change per hour

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 eve protection.

Body parts potentially exposed; Two hands (960 cm2)

Outdoor use

Professional use of facade/surface cleaning products; CS47-u1; Façade/surface cleaner. Medium pressure process; AISE-P902 (PROC 10)

Covers concentrations up to 1 %

Covers use up to 8 h/day

Room ventilation; Basic; Up to 3 air change per hour

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

Use suitable eye protection.

Body parts potentially exposed; Two hands (960 cm2)

Outdoor use

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

Professional use of vehicle cleaning

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 disinfactant. Spray and rinse manual process; AISE-P315; Professional use of floor care products: CS30-u2: Floor

Covers concentrations up to 1 %

Covers use up to 1 h/day

Room ventilation; Basic; Up to 3 air change per hour

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 nands.; 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

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cleaner. Spray and wipe manual

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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) Professional use of general surface Covers concentrations up to 1 % cleaning products; CS19-u2; Descaling Covers use up to 1 h/day agent. Spray and rinse manual process Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). AISE-P308; CS22-u2; Oven/Grill Wear a respirator which reduces the air impurities by at least a factor of 20 (APF >= 20). For further Cleaner. Spray and wipe manual specification, refer to section 8 of the SDS process; AISE-P311 (PROC 11) 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; Assumes 2 hands and forearms (1500 cm2) Indoor use Covers concentrations up to 1 % Professional use of vehicle cleaning products; CS41-u2; Car wash product. Covers use up to 1 h/day Spray and wipe manual process; AISE-Room ventilation; Basic; Up to 3 air change per hour P703; CS44-u2; Boat cleaner. Spray and Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If wipe manual process; AISE-P706 skin contamination is expected to extend to other parts of the body, then these body parts should (PROC 11) 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 Professional use of façade/surface Covers concentrations up to 1 % cleaning products; CS47-u2; Covers use up to 1 h/day Façade/surface cleaner. Medium Room ventilation; Basic; Up to 3 air change per hour pressure process; AISE-P902 (PROC Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If 11) 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 Professional use of façade/surface Covers concentrations up to 1 % cleaning products; CS46-u; Covers use up to 1 h/day Façade/surface cleaner. High pressure Room ventilation; Basic; Up to 3 air change per hour process; AISE-P901 (PROC 11) 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 eve protection. Body parts potentially exposed; Assumes 2 hands and forearms (1500 cm2) Professional use of maintenance Covers concentrations up to 1 % products; CS37; Drain unblocker. Covers use up to 0.25 h/day Manual process; AISE-P606; CS38; Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Drain cleaner. Manual process; AISE-Respiratory protection: No. P607 (PROC 13) Use suitable eye protection. Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If

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	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
Professional use of general surface	Covers concentrations up to 1 %
cleaning products; CS20-u; Descaling	Covers use up to 1 h/day
agent. Dipping process; AISE-P309;	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).
Professional use of medical devices;	Respiratory protection; No.
CS49-u; Medical devices . Dipping	Use suitable eye protection.
process; AISE-P1102 (PROC 13)	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

4.3.2. Worker exposure: 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)

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	6.47E-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
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	3.237 mg/m³ (TRA Workers 3.0)	0.525
Dermal, systemic, long term	0.137 mg/kg bw/day (TRA Workers 3.0)	0.078
Combined, systemic, long term		0.603

### 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	0.647 mg/m³ (TRA Workers 3.0)	0.105
Dermal, systemic, long term	0.069 mg/kg bw/day (TRA Workers 3.0)	0.039
Combined, systemic, long term		0.144

#### 4.3.5. Worker exposure: Professional use of vehicle cleaning products; Semi-automated task;

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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	0.647 mg/m³ (TRA Workers 3.0)	0.105
Dermal, systemic, long term	0.686 mg/kg bw/day (TRA Workers 3.0)	0.392
Combined, systemic, long term		0.497

4.3.6. Worker exposure: 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)

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	1.619 mg/m³ (TRA Workers 3.0)	0.262
Dermal, systemic, long term	0.137 mg/kg bw/day (TRA Workers 3.0)	0.078
Combined, systemic, long term		0.341

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	1.619 mg/m³ (TRA Workers 3.0)	0.262
Dermal, systemic, long term	0.137 mg/kg bw/day (TRA Workers 3.0)	0.078
Combined, systemic, long term		0.341

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	1.619 mg/m³ (TRA Workers 3.0)	0.262
Dermal, systemic, long term	0.274 mg/kg bw/day (TRA Workers 3.0)	0.157
Combined, systemic, long term		0.419

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-P104 (PROC 8a)

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Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	3.238 mg/m³ (TRA Workers 3.0)	0.525
Dermal, systemic, long term	0.274 mg/kg bw/day (TRA Workers 3.0)	0.157
Combined, systemic, long term		0.681

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 disinfactant. Manual process; AISE-P314; CS26-p; Surface disinfactant. 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)

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	3.238 mg/m³ (TRA Workers 3.0)	0.525
Dermal, systemic, long term	0.137 mg/kg bw/day (TRA Workers 3.0)	0.078
Combined, systemic, long term		0.603

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	3.238 mg/m³ (TRA Workers 3.0)	0.525
Dermal, systemic, long term	0.137 mg/kg bw/day (TRA Workers 3.0)	0.078
Combined, systemic, long term		0.603

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	0.925 mg/m³ (TRA Workers 3.0)	0.15
Dermal, systemic, long term	0.137 mg/kg bw/day (TRA Workers 3.0)	0.078
Combined, systemic, long term		0.228

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	3.238 mg/m³ (TRA Workers 3.0)	0.525
Dermal, systemic, long term	0.274 mg/kg bw/day (TRA Workers 3.0)	0.157
Combined, systemic, long term		0.681

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	0.971 mg/m³ (TRA Workers 3.0)	0.157
Dermal, systemic, long term	0.549 mg/kg bw/day (TRA Workers 3.0)	0.313
Combined, systemic, long term		0.471

4.3.15. Worker exposure: Professional use of general surface cleaning products; CS18-u;

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#### Descaling agent. Manual process; AISE-P307 (PROC 10)

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.971 mg/m³ (TRA Workers 3.0)	0.157
Dermal, systemic, long term	0.274 mg/kg bw/day (TRA Workers 3.0)	0.157
Combined, systemic, long term		0.314

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; 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 disinfactant. Manual process; AISE-P314; CS26-u1; Surface disinfactant. Spray and rinse manual process; AISE-P315; CS27-u; Metal cleaning agent. Manual process; AISE-P316; 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	1.619 mg/m³ (TRA Workers 3.0)	0.262
Dermal, systemic, long term	0.549 mg/kg bw/day (TRA Workers 3.0)	0.313
Combined, systemic, long term		0.576

4.3.17. 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	1.619 mg/m³ (TRA Workers 3.0)	0.262
Dermal, systemic, long term	0.274 mg/kg bw/day (TRA Workers 3.0)	0.157
Combined, systemic, long term		0.419

4.3.18. 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	1.619 mg/m³ (TRA Workers 3.0)	0.262
Dermal, systemic, long term	0.549 mg/kg bw/day (TRA Workers 3.0)	0.313
Combined, systemic, long term		0.576

### 4.3.19. 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	1.619 mg/m³ (TRA Workers 3.0)	0.262
Dermal, systemic, long term	0.274 mg/kg bw/day (TRA Workers 3.0)	0.157

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Combined, systemic, long term 0.419

4.3.20. 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 disinfactant. 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	1.295 mg/m³ (TRA Workers 3.0)	0.21
Dermal, systemic, long term	1.071 mg/kg bw/day (TRA Workers 3.0)	0.612
Combined, systemic, long term		0.822

4.3.21. 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	0.648 mg/m³ (TRA Workers 3.0)	0.105
Dermal, systemic, long term	1.071 mg/kg bw/day (TRA Workers 3.0)	0.612
Combined, systemic, long term		0.717

4.3.22. 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	0.648 mg/m³ (TRA Workers 3.0)	0.105
Dermal, systemic, long term	1.071 mg/kg bw/day (TRA Workers 3.0)	0.612
Combined, systemic, long term		0.717

4.3.23. 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	0.648 mg/m³ (TRA Workers 3.0)	0.105
Dermal, systemic, long term	1.071 mg/kg bw/day (TRA Workers 3.0)	0.612
Combined, systemic, long term		0.717

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

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.648 mg/m³ (TRA Workers 3.0)	0.105
Dermal, systemic, long term	1.071 mg/kg bw/day (TRA Workers 3.0)	0.612
Combined, systemic, long term		0.717

4.3.25. 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	0.647 mg/m³ (TRA Workers 3.0)	0.105

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Dermal, systemic, long term	0.137 mg/kg bw/day (TRA Workers 3.0)	0.078
Combined, systemic, long term		0.183

4.3.26. 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	1.295 mg/m³ (TRA Workers 3.0)	0.21
Dermal, systemic, long term	0.137 mg/kg bw/day (TRA Workers 3.0)	0.078
Combined, systemic, long term		0.288

#### 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 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)

Troduct category. Folishes and wax blends (FO 31)	
Environment	
1: GES 5; Professional end-use of polishes and wax blends	ERC 8a
Worker	
2: Professional use of maintenance products; CS8-u; Leather care product. Automatic process; AISE-P605 3: Professional use of maintenance products; CS8-p; Leather care product. Automatic process; AISE-P605 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 2 PROC 8b 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
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)

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

Daily local widespread use amount; <=; 0; tonnes/day

### 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.

#### Other conditions affecting workers exposure

Indoor use

Assumes process temperature up to 40 ℃

#### Specific conditions of use per contributing scenario

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

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products; CS9-u; Stainless steel care.	
Manual process; AISE-P608 (PROC 10)	
Professional use of maintenance	Covers use up to 0.25 h/day
products; CS5-u2; Furniture care	Wear a respirator which reduces the air impurities by at least a factor of 10 (APF >= 10). For further
product. Spray and wipe manual	specification, refer to section 8 of the SDS
process; AISE-P602; CS7-u2; Leather	Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If
care product. Spray and wipe manual	skin contamination is expected to extend to other parts of the body, then these body parts should
process; AISE-P604; CS10-u1;	also be protected with impervious garments in a manner equivalent to those described for the
Stainless steel care. Spray and wipe	hands.; For further specification, refer to section 8 of the SDS.
manual process; AISE-P609 (PROC 11)	Body parts potentially exposed; Assumes 2 hands and forearms (1500 cm2)
Professional use of maintenance	Covers use up to 1 h/day
products; CS3-u2; Polish /	Wear a respirator which reduces the air impurities by at least a factor of 20 (APF >= 20). For further
impregnating agent. Spray and wipe	specification, refer to section 8 of the SDS
manual process; AISE-P408 (PROC 11)	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; Assumes 2 hands and forearms (1500 cm2)
Professional uses; Mixing or blending	Covers use up to 8 h/day
in batch processes; Uses in	Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If
cosmetics/personal care products,	skin contamination is expected to extend to other parts of the body, then these body parts should
perfumes and fragrances (PROC 5)	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
Professional uses; Transfer of	Covers use up to 8 h/day
substance or mixture	Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If
(charging/discharging) at non	skin contamination is expected to extend to other parts of the body, then these body parts should
dedicated-facilities; Uses in	also be protected with impervious garments in a manner equivalent to those described for the
cosmetics/personal care products,	hands.; For further specification, refer to section 8 of the SDS.
perfumes and fragrances (PROC 8a)	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

### 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

### 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	3.237 mg/m³ (TRA Workers 3.0)	0.525
Dermal, systemic, long term	0.137 mg/kg bw/day (TRA Workers 3.0)	0.078
Combined, systemic, long term		0.603

### 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	1.295 mg/m³ (TRA Workers 3.0)	0.21

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Dermal, systemic, long term	0.137 mg/kg bw/day (TRA Workers 3.0)	0.078
Combined, systemic, long term		0.288

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 wipe manual process; AISE-P609 (PROC 10)

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.971 mg/m³ (TRA Workers 3.0)	0.157
Dermal, systemic, long term	0.549 mg/kg bw/day (TRA Workers 3.0)	0.313
Combined, systemic, long term		0.471

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	1.619 mg/m³ (TRA Workers 3.0)	0.262
Dermal, systemic, long term	0.549 mg/kg bw/day (TRA Workers 3.0)	0.313
Combined, systemic, long term		0.576

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	0.648 mg/m³ (TRA Workers 3.0)	0.105
Dermal, systemic, long term	1.071 mg/kg bw/day (TRA Workers 3.0)	0.612
Combined, systemic, long term		0.717

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	0.648 mg/m³ (TRA Workers 3.0)	0.105
Dermal, systemic, long term	1.071 mg/kg bw/day (TRA Workers 3.0)	0.612
Combined, systemic, long term		0.717

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	0.647 mg/m³ (TRA Workers 3.0)	0.105
Dermal, systemic, long term	0.137 mg/kg bw/day (TRA Workers 3.0)	0.078
Combined, systemic, long term		0.183

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	1.619 mg/m³ (TRA Workers 3.0)	0.262
Dermal, systemic, long term	0.137 mg/kg bw/day (TRA Workers 3.0)	0.078
Combined, systemic, long term		0.341

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#### 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, 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

#### Consume

2: CS1; Consumer uses; Laundry and dish washing products; LAUNDRY REGULAR (powder, liquid) for consumer PC 35 use; AlSE-C1; LAUNDRY COMPACT (powder, liquid/gel, tablet) for consumer use; AlSE-C2; FABRIC CONDITIONERS (liquid regular, liquid concentrate) for consumer use; AlSE-C3; LAUNDRY ADDITIVES (powder bleach, liquid bleach, tablet) for consumer use; AlSE-C4; HAND DISHWASHING (liquid regular, liquid concentrate) for consumer use; AlSE-C5; MACHINE DISHWASHING (powder, liquid, tablet) for consumer use; AlSE-C6; LAUNDRY AIDS (ironing aids-starch spray, ironing aids-other) for consumer use; AlSE-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; AlSE-C7; TOILET CLEANERS (powder, liquid, gel, tablet) for consumer use; AlSE-C8; CARPET CLEANERS (spray, liquid) for consumer use; AlSE-C11; WIPES (bathroom, kitchen, floor) for consumer use; AlSE-C15; High Pressure washers/cleaners; AlSE-C21; Automotive Care (spray, liquid); AlSE-C22 4: CS3; Consumer use; Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners); PC 35 SURFACE CLEANERS (liquid, powder, gel neat, spray neat) for consumer use; AlSE-C7; OVEN CLEANERS (spray, trigger) for consumer use; AlSE-C10; CARPET CLEANERS (spray, liquid) for consumer use; AlSE-C11;

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; <=; 2.75E-5; tonnes/day

Other conditions affecting environmental exposure

Municipal sewage treatment plant is assumed.

Automotive Care (spray, liquid); AISE-C22

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-

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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

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

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)

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

Assumes that potential dermal contact is limited to hands.

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)

Product (article) characteristics

Physical form of product; Liquids

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Covers concentrations up to 0.1 %

Exposure route; dermal; Yes

Exposure route; Inhalation

No spraying

Oral exposure is considered to be not relevant.

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

Exposure duration = 0.2 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

Information and behavioral advice for consumers

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	0.027 kg/day	ERC
Air	0.027 kg/day	ERC
Soil	5.5E-3 kg/day	ERC

Protection target	Exposure estimate	RCR
Fresh water	8.32E-4 mg/L (EUSES 2.1.2)	0.268
Sediment (freshwater)	0.528 mg/kg dw (EUSES 2.1.2)	0.268
Marine water	8.27E-5 mg/L (EUSES 2.1.2)	0.267
Sediment (marine water)	0.053 mg/kg dw (EUSES 2.1.2)	0.267
Sewage Treatment Plant	7.76E-3 mg/L (EUSES 2.1.2)	< 0.01
Agricultural soil	0.234 mg/kg dw (EUSES 2.1.2)	0.597
Predator's prey (freshwater)	0.019 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (marine water)	1.91E-3 mg/kg ww (EUSES 2.1.2)	< 0.01
Top predator's prey (marine water)	5.83E-4 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (terrestrial)	0.352 mg/kg ww (EUSES 2.1.2)	0.042
Man via environment - Inhalation (systemic effects)	4.54E-7 mg/m³ (EUSES 2.1.2)	< 0.01
Man via environment - Oral	2.86E-3 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)

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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)	0.343
Oral, systemic, long term	0 mg/kg bw/day (TRA Consumers 3.1)	< 0.01
Combined, systemic, long term		0.343

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)

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	0.143 mg/kg bw/day (TRA Consumers 3.1)	0.229
Oral, systemic, long term	0 mg/kg bw/day (TRA Consumers 3.1)	< 0.01
Combined, systemic, long term		0.229

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	1.34E-3 mg/m³ (TRA Consumers 3.1)	< 0.01
Dermal, systemic, long term	0.143 mg/kg bw/day (TRA Consumers 3.1)	0.229
Oral, systemic, long term	0 mg/kg bw/day (TRA Consumers 3.1)	< 0.01
Combined, systemic, long term		0.23

#### 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

Administrative information:

Report Information: SDS\_EU/EN/GHS\_SDS\_EU\_REGION/40

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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

3: CS2; Consumer uses; AIR FRESHENERS NON AEROSOL (perfume in/on solid substarte (gel), candles, PC 3

diffusers (heated) for consumer use; AISE-C18

#### 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)

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

Daily local widespread use amount; <=; 0; tonnes/day

# 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)

#### Product (article) characteristics

Covers concentrations up to 0.2 %

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 substarte (gel), candles, diffusers (heated) for consumer use; AISE-C18 (PC 3)

#### Product (article) characteristics

Physical form of product; Liquids

Covers concentrations up to 0.5 %

Exposure route; dermal; Yes

nhalation 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

nformation and behavioral advice for consumers

Administrative information:

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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

## 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	0.87 mg/m³ (TRA Consumers 3.1)	0.798
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		0.798

### 7.3.3. Consumer exposure: CS2; Consumer uses; AIR FRESHENERS NON AEROSOL (perfume in/on solid substarte (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	0.013 mg/kg bw/day (TRA Consumers 3.1)	0.02
Oral, systemic, long term	0 mg/kg bw/day (TRA Consumers 3.1)	< 0.01
Combined, systemic, long term		0.02

### 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

Administrative information:

Report Information: SDS\_EU/EN/GHS\_SDS\_EU\_REGION/40

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#### Consumer

2: CS1; Consumer uses; INSECTICIDES (liquid electric, spray neat); AISE-C19 PC 8
3: 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)

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

Daily local widespread use amount; <=; 0; tonnes/day

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

#### Product (article) characteristics

Covers concentrations up to 0.03 %

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

requency 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

### 8.2.3. 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 0.03 %

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.

Administrative information:

Report Information: SDS\_EU/EN/GHS\_SDS\_EU\_REGION/40

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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
Air	0 kg/day	ERC
Soil	0 kg/day	ERC

### 8.3.2. 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	2.96E-4 mg/m³ (TRA Consumers 3.1)	< 0.01
Dermal, systemic, long term	0.437 mg/kg bw/day (TRA Consumers 3.1)	0.7
Oral, systemic, long term	0 mg/kg bw/day (TRA Consumers 3.1)	< 0.01
Combined, systemic, long term		0.7

### 8.3.3. 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	0.057 mg/m³ (TRA Consumers 3.1)	0.052
Dermal, systemic, long term	0.437 mg/kg bw/day (TRA Consumers 3.1)	0.7
Oral, systemic, long term	0 mg/kg bw/day (TRA Consumers 3.1)	< 0.01
Combined, systemic, long term		0.752

#### 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)

Environment

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

ERC 8a

Consumer

2: CS1; Consumer uses; Polishes and wax blends; FURNITURE FLOOR and LEATHER CARE (spray, liquid) for PC 31

Administrative information:

Report Information: SDS\_EU/EN/GHS\_SDS\_EU\_REGION/40

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consumer use; AISE-C20

3: CS2; Consumer uses; Polishes and wax blends; FURNITURE FLOOR and LEATHER CARE (spray, liquid) for PC 31 consumer use; AISE-C20

#### 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)

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

Daily local widespread use amount; <=; 0; tonnes/day

### 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)

#### Product (article) characteristics

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.

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

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

#### Information and behavioral advice for consumers

Indoor use

Covers adult 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

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

Administrative information:

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Covers adult use.

Other conditions affecting consumers exposure

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

nhalation; 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

### 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-4 mg/m³ (TRA Consumers 3.1)	< 0.01
Dermal, systemic, long term	0.357 mg/kg bw/day (TRA Consumers 3.1)	0.572
Oral, systemic, long term	0 mg/kg bw/day (TRA Consumers 3.1)	< 0.01
Combined, systemic, long term		0.572

### 9.3.3. Consumer exposure: CS2; 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	0.844 mg/m³ (TRA Consumers 3.1)	0.774
Dermal, systemic, long term	0.014 mg/kg bw/day (TRA Consumers 3.1)	0.023
Oral, systemic, long term	0 mg/kg bw/day (TRA Consumers 3.1)	< 0.01
Combined, systemic, long term		0.797

#### 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

Administrative information:

Report Information: SDS\_EU/EN/GHS\_SDS\_EU\_REGION/40

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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)

Amount used, frequency and duration of use (or from service life) Daily local widespread use amount; <=; 0; tonnes/day

#### 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

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).

Administrative information:

Report Information: SDS\_EU/EN/GHS\_SDS\_EU\_REGION/40