

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended

Givaudan

BOURGEONAL

Version 25.0

Revision Date 10 JUL 2025

Print Date 11 JUL 2025

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Sales No. : 2837903
BOURGEONAL

Substance name : 3-(4-TERTBUTYLPHENY)-PROPANAL
Identifier

CAS-No. : 18127-01-0
EC-No. : 242-016-2
Formula : C₁₃H₁₈O

REACH Registration Number : 01-2119983533-30

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

Legal Entity : Givaudan France SAS
55 Voie des Bans
F-95102 ARGENTEUIL

1.4 Emergency telephone number

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)

Skin irritation, Category 2 **H315: Causes skin irritation.**

Administrative information:

Report Information: SDS_EU/EN/GHS_SDS_EU_REGION/42

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

Shipping Order Information: 34 565 709/30 361 256

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Skin sensitisation, Sub-category 1B
Reproductive toxicity, Category 2

Specific target organ toxicity - repeated exposure, Category 2, Stomach, Liver

Long-term (chronic) aquatic hazard, Category 3

H317: May cause an allergic skin reaction.

H361: Suspected of damaging fertility or the unborn child.

H373: May cause damage to organs through prolonged or repeated exposure if swallowed.

H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word :

Warning

Hazard statements :

H315

Causes skin irritation.

H317

May cause an allergic skin reaction.

H361

Suspected of damaging fertility or the unborn child.

H373

May cause damage to organs (Stomach, Liver) through prolonged or repeated exposure if swallowed.

H412

Harmful to aquatic life with long lasting effects.

Precautionary statements :

Prevention:

P201

Obtain special instructions before use.

P260

Do not breathe mist or vapours.

P264

Wash skin thoroughly after handling.

P273

Avoid release to the environment.

P280

Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

Response:

P308 + P313

IF exposed or concerned: Get medical advice/ attention.

Hazardous components which must be listed on the label:

- 3-(4-tert butylphenyl)-propanal 18127-01-0

2.3 Other hazards

Hazards not Otherwise

: None

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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

3.1 Substances

Chemical name	CAS-No. EC-No. REACH Registration Number	Concentration [Percent by weight]	M-Factor, SCL, ATE
3-(4-tert butylphenyl)- propanal	18127-01-0 242-016-2 01-2119983533-30	>= 90 - <= 100	Acute toxicity estimate Acute oral toxicity:2 500 mg/kg Acute dermal toxicity:> 5 000 mg/kg

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Do not leave the victim unattended.
Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.

If inhaled : If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.

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- | | |
|-------------------------|---|
| In case of skin contact | : If on skin, rinse well with water.
If on clothes, remove clothes.
Immediately seek medical attention if chemical entered ear canal.
If skin irritation persists, call a physician. |
| In case of eye contact | : Protect unharmed eye.
Remove contact lenses.
Flush eyes with water as a precaution.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist. |
| If swallowed | : Immediately consult Poison Control Center or physician.
Keep respiratory tract clear.
Do NOT induce vomiting.
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 | : Causes skin irritation.
May cause an allergic skin reaction.
Suspected of damaging fertility or the unborn child.
May cause damage to organs through prolonged or repeated exposure if swallowed. |

4.3 Indication of any immediate medical attention and special treatment needed

- | | |
|-----------|--------------------------|
| Treatment | : Treat symptomatically. |
|-----------|--------------------------|

SECTION 5: Firefighting measures

5.1 Extinguishing media

- | | |
|--------------------------------|--|
| Suitable extinguishing media | : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| Unsuitable extinguishing media | : High volume water jet |

5.2 Special hazards arising from the substance or mixture

- | | |
|--------------------------------------|---|
| Specific hazards during firefighting | : Exposure to decomposition products may be a hazard to health.
Cool closed containers exposed to fire with water spray. |
|--------------------------------------|---|

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Do not allow run-off from fire fighting to enter drains or water courses.

5.3 Advice for firefighters

- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.
- Further information : In the event of fire and/or explosion do not breathe fumes. 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 : Keep people away from and upwind of spill/leak. For emergency conditions, use an approved positive-pressure self-contained breathing apparatus. Material can create slippery conditions. Use personal protective equipment.

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 : Clean contaminated floors and objects thoroughly while observing environmental regulations. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). 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

- Advice on safe handling : Do not breathe vapours/dust. Avoid exposure - obtain special instructions before use.

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Avoid contact with skin and eyes.
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 : Store Ambient 10-30°C (50-85°F)
Dry, well ventilated, preferably full, hermetically sealed
Advice on common storage : Protect against light. Formation of crystals is possible Store under nitrogen
Storage class (TRGS 510) : 10 Combustible liquids
Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Please refer to attached exposure scenarios.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

DNEL : End Use: Consumer use
Exposure routes: Dermal
Potential health effects: Acute local effects
Value: 0,1075 mg/cm2

DNEL : End Use: Consumer use
Exposure routes: Dermal
Potential health effects: Acute systemic effects
Value: 1,79 mg/kg bw/day

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DNEL	: End Use: Consumer use Exposure routes: Dermal Potential health effects: Long-term local effects Value: 0,1075 mg/cm2
DNEL	: End Use: Consumer use Exposure routes: Dermal Potential health effects: Long-term systemic effects Value: 0,45 mg/kg bw/day
DNEL	: End Use: Consumer use Exposure routes: Inhalation Potential health effects: Acute local effects Value: 0,22 mg/m3
DNEL	: End Use: Consumer use Exposure routes: Inhalation Potential health effects: Acute systemic effects Value: 0,22 mg/m3
DNEL	: End Use: Consumer use Exposure routes: Inhalation Potential health effects: Long-term local effects Value: 0,22 mg/m3
DNEL	: End Use: Consumer use Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 0,0544 mg/m3
DNEL	: End Use: Consumer use Exposure routes: Oral Potential health effects: Long-term systemic effects Value: 0,03 mg/kg bw/day
DNEL	: End Use: Workers Exposure routes: Dermal Potential health effects: Acute local effects Value: 0,215 mg/cm2
DNEL	: End Use: Workers Exposure routes: Dermal Potential health effects: Acute systemic effects Value: 3,57 mg/kg bw/day
DNEL	: End Use: Workers Exposure routes: Dermal Potential health effects: Long-term local effects

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	Value: 0,215 mg/cm2
DNEL	: End Use: Workers Exposure routes: Dermal Potential health effects: Long-term systemic effects Value: 0,89 mg/kg bw/day
DNEL	: End Use: Workers Exposure routes: Inhalation Potential health effects: Acute local effects Value: 0,88 mg/m3
DNEL	: End Use: Workers Exposure routes: Inhalation Potential health effects: Acute systemic effects Value: 0,88 mg/m3
DNEL	: End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term local effects Value: 0,22 mg/m3
DNEL	: End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 0,308 mg/m3
PNEC	: Fresh water Value: 0,00105 mg/l
PNEC	: Marine water Value: 0,000105 mg/l
PNEC	: Oral Value: 0,17 mg/kg
PNEC	: Fresh water sediment Value: 0,104 mg/kg dry weight (d.w.)
PNEC	: Marine sediment Value: 0,0104 mg/kg dry weight (d.w.)
PNEC	: Soil Value: 0,0202 mg/kg dry weight (d.w.)
PNEC	: Sewage treatment plant Value: 3,16 mg/l

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8.2 Exposure controls

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

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

8.2.1 Engineering measures

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

8.2.2 Personal protective equipment

- | | |
|-----------------------|--|
| Eye/face protection | : Use safety goggles 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. The type of protective equipment must be selected according to the concentration and amount of the hazardous substance at the specific workplace. Use apron and sleeve covers or complete chemical suit if exposure is expected. |

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Respiratory protection : Respiratory protection should be worn when workplace exposures exceed exposure limit requirements or guidelines. If there are no applicable exposure limits or guidelines, use an approved respirator where there is a potential for adverse effects, including but not limited to respiratory irritation or odor, or where indicated by the exposure assessment. Selection of air-purifying or positive-pressure supplied-air will depend on the results of the exposure assessment which includes an evaluation of the specific operations and the potential airborne concentrations. For emergency conditions, use an approved positive-pressure self-contained breathing apparatus.

In case a risk analysis proved the cartridge respirator as acceptable, use type:
ABEK-P3 (EN 14387) OR Combination Multi-gas/P100 (42CFR84.193; ANSI Z88.7 or equivalent local standard) as a backup to engineering controls.

In absence of engineering controls, use self-contained breathing apparatus or full face supplied air respirators. Use respirators and components tested and approved under appropriate government standards such as CEN (EU) or NIOSH 42 CFR 84(US).

Thermal hazards : Wear appropriate thermal protective clothing, when necessary.

Hygiene measures : Remove contaminated clothing and protective equipment before entering eating areas.
Do not eat, drink or smoke during work.
Wash hands any time after handling the product.

8.2.3 Environmental exposure controls

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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : liquid
Form : liquid
Colour : colorless to Pale yellow
Taste : not determined
Odour : Floral, Fresh, Lily-of-the-valley, Green
Odour Threshold : 0,4037 ng/l

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Flash point : 73 °C 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 : Unlikely

Auto-ignition temperature : 360 °C Method: DIN 51794
Decomposition temperature : no data available
Molecular weight : 190,28 g/mol
pH : 7
at 10,00 g/l

Melting point : -11 °C
Boiling point : 207 °C at 1 013 hPa
Vapour pressure : 0,002 hPa at 20 °C
Method: OECD Test Guideline 104
Density : 959,27 kg/m3 at 20 °C
Bulk density : Not applicable
Water solubility : 132 mg/l at 20 °C
Solubility/qualitative : no data available
Partition coefficient: n-octanol/water : log Pow: 3,2
Method: OECD Test Guideline 117
Viscosity, dynamic : 25,6 mPa.s
Viscosity, kinematic : 9,8 mm2/s at 20 °C
Method: OECD Test Guideline 114

Relative vapour density : no data available
Surface tension : 48,7 mN/m at 20 °C

Evaporation rate : no data available
Explosive properties : Not explosive

9.2 Other information

Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

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

10.4 Conditions to avoid

Conditions to avoid : no data available

10.5 Incompatible materials

Materials to avoid : Not applicable

10.6 Hazardous decomposition products

Hazardous decomposition products : no data available

Thermal decomposition : no data available

SECTION 11: Toxicological information

Acute toxicity

Acute oral toxicity : LD50 Rat
Dose: 2 660 mg/kg

Acute inhalation toxicity : This information is not available.

Acute dermal toxicity : LD50 Rabbit
Dose: > 5 000 mg/kg

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

Skin corrosion/irritation

Skin irritation : Species: Rabbit
irritating
Species: reconstructed human epidermis (RhE)
irritating
Method: EPISKIN Human Skin Model Test
May cause skin irritation and/or dermatitis.

Serious eye damage/eye irritation

Eye irritation : Species: Rabbit
No eye irritation
Species: Bovine cornea
No eye irritation
Method: OECD Test Guideline 437
Vapours may cause irritation to the eyes, respiratory system

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and the skin.

Respiratory or skin sensitisation

Sensitisation : LLNA Mouse
Result: The product is a skin sensitiser, sub-category 1B.
Method: OECD Test Guideline 429

Germ cell mutagenicity

Genotoxicity in vitro : Ames test
Salmonella typhimurium
negative
Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay)

Ames test
negative
Method: OECD Test Guideline 471

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

Micronucleus test
negative
Method: OECD Test Guideline 487

Carcinogenicity

Carcinogenicity : No data is available on the product itself.

Reproductive toxicity

Suspected of damaging fertility or the unborn child.

Effects on foetal development : Test Type: reproductive and developmental toxicity study
Species: Rat, male and female
Strain: Sprague-Dawley
Application Route: Oral
General Toxicity Maternal: NOAEL: 5 mg/kg body weight
Developmental Toxicity: NOAEL: 5 mg/kg body weight
Method: OECD Test Guideline 422
Result: Not classified
GLP: yes

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Target Organ Systemic Toxicant - Single exposure

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

Target Organ Systemic Toxicant - Repeated exposure

Target Organ Systemic Toxicant - Repeated exposure : Species: Rat, male
Application Route: Oral
Exposure time: 5d ()
Lowest observed effect level: 100 mg/kg

Target Organ Systemic Toxicant - Repeated exposure : Species: Rat, male and female
Application Route: Oral
Exposure time: 28d ()
NOAEL: 5 mg/kg
Method: OECD Test Guideline 422

Target Organ Systemic Toxicant - Repeated exposure : Species: Rat, male and female
Application Route: Oral
Exposure time: 28d ()
NOAEL: 5 mg/kg
Method: OECD Test Guideline 422

Aspiration hazard

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

Phototoxicity

Phototoxicity : No data is available on the product itself.

Further information : no data available

11.2 Information on other hazards

Endocrine disrupting properties

Product:

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

Further information

Product:

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Remarks : no data available

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1,26 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 249
GLP: no

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1,8 mg/l
Exposure time: 48 h
Test Type: semi-static test
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae/aquatic plants : EC50 (Raphidocelis subcapitata (freshwater green alga)): 7,72 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes

NOEC (Raphidocelis subcapitata (freshwater green alga)): 0,511 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes

Ecotoxicology Assessment

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

Product:

Biodegradability : Result: Inherently biodegradable.
Biodegradation: 77 %
Exposure time: 28 d
Method: OECD Test Guideline 302 C
GLP: yes

Result: Readily biodegradable.

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Biodegradation: 65 %
Exposure time: 28 d
Method: OECD Test Guideline 301 F
GLP: yes

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

Product:

Distribution among : log Koc: 2,98
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 : An environmental hazard cannot be excluded in the event of
information unprofessional handling or disposal.
Harmful to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Send to a licensed waste management company.
Dispose of in accordance with local, state and federal
regulations.
The product should not be allowed to enter drains, water

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courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.

Contaminated packaging : Do not expose containers to high temperatures such as in hot work processes.
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

N/A

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

N/A

14.4 Packing group

N/A

14.5 Environmental hazards

N/A

14.6 Special precautions for user

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 - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, : Conditions of restriction for the following entries should be

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mixtures and articles (Annex XVII)

considered:
Number on list 3

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).

: Neither banned nor restricted

REACH - List of substances subject to authorisation (Annex XIV)

: Neither banned nor restricted

Major Accident Hazard Legislation

: Not applicable

Water hazard class (Germany)

: WGK 2 obviously hazardous to water
Code Number: 4 411

15.2 Chemical safety assessment

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

SECTION 16: Other information

Full list of Emergency response numbers worldwide.

	Country	Phone nr		Country	Phone nr
Europe	All Europe	+44 1235 239670	APAC	All East/South East Asia	+65 3158 1074
	France	+33 1 72 11 00 03		Sri Lanka	+65 3158 1195
	Germany	+49 89 220 61012		Taiwan	+886 2 8793 3212
	Spain	+34 91 114 2520		Japan	0120 015 230
	Italy	800 699 792		Indonesia	007 803 011 0293
	Netherlands	+31 10 713 8195		Malaysia	+60 3 6207 4347
	Turkey	0800 621 2139 +44 1235 239670		Thailand	001 800 120 666 751
	Norway	+47 2103 4452		India	+65 3158 1198 000 800 100 7479
	Greece	+30 21 1198 3182		Pakistan	+65 3158 1329
	Portugal	+351 30880 4750		Bangladesh	+65 3158 1200
	Denmark	+45 8988 2286		Philippines	+63 2 8231 2149
	Sweden	+46 8 566 42573		Vietnam	+84 28 4458 2388
	Poland	+48 22 307 3690		Korea	+65 3158 1285
	Czech republic	+420 228 882 830		South Korea	+82 2 3479 8401

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	Finland	+358 9 7479 0199		Australia	+61 2 8014 4558
Middle East/Africa	All Middle East/Africa	+44 1235 239671		New Zealand	+64 9 929 1483
	Bahrain and Middle East	+44 1235 239671		China	+86 532 8388 9090
	Africa/South Africa	+27 21 300 2732		Mexico	+52 55 5004 8763
NOAM	USA and Canada	+1 866 928 0789	LATAM	Brazil	+55 11 3197 5891
	USA and Canada	+1 215 207 0061		Chile	+56 2 2582 9336
	USA and Canada	+1 202 464 2554		Colombia	+57 1 508 7337
Global	Global	+44 1865 407333		Argentina	+54 11 5984 3690

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

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; 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; GB EH40 - Great Britain Environmental Hygiene; 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; NOM-010-STPS - Official Mexican Standard, Ministry of Labor and Social Welfare; 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.

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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); Small scale; AISE SPERC 2.1.b.v1

2: GES 1; Formulation of fragrance compounds (mixing of fragrance substances into fragrance compounds); medium; Large scale; AISE SPERC 2.1.a.v1

Worker

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

1.2. Conditions of use affecting exposure

1.2.1. Control of environmental exposure: GES 1; Formulation of fragrance compounds (mixing of fragrance substances into fragrance compounds); Small scale; AISE SPERC 2.1.b.v1 (ERC 2)

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

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Annual amount per site <= 7.5 tonnes/year
Daily amount per site <= 0.03 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); medium; Large scale; AISE SPERC

2.1.a.v1 (ERC 2)

Amount used, frequency and duration of use (or from service life)
Daily amount per site <= 0.07 tonnes/day
Annual amount per site <= 17.5 tonnes/year
Conditions and measures related to biological sewage treatment plant
Municipal sewage treatment plant is assumed.
Assumed domestic sewage treatment plant flow; >=; 2E3; m3/day
application of the STP sludge on agricultural soil; Yes
Other conditions affecting environmental exposure
Receiving surface water flow >= 1.8E4 m3/day

1.2.3. Control of worker exposure

Conditions of use applicable to all contributing scenarios

Product (article) characteristics
Liquid
Technical and organisational conditions and measures
Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.; Ensure regular inspection, cleaning and maintenance of equipment and machines.; Clear spills immediately.; Ensure daily cleaning of the equipment.
Conditions and measures related to personal protection, hygiene and health evaluation
Use suitable eye protection.
Other conditions affecting workers exposure
Body parts potentially exposed; One hand face only (240 cm2)
Indoor use
Assumes process temperature up to 40 °C

Specific conditions of use per contributing scenario

Contributing scenario	Specific conditions of use
CS1; Transfer of substance or mixture (charging/discharging) at dedicated facilities; IFRA F-1 (PROC 8b)	Covers concentrations up to 25 % Covers use up to 1 h/day Room ventilation; Basic; Up to 3 air change per hour Provide enclosing hood with very high effectiveness (such as fume cupboard) or effective ventilation by spray booth according to EN 16985. Ensure effectiveness is at least 95%. Wear 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

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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 systems; Filling of articles/equipment; With sample collection; IFRA F-3 (PROC 3)	Covers concentrations up to 100 % Covers use up to 4 h/day Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Provide specifically designed and maintained LEV (fixed capturing hood type, on-tool extraction or enclosing hood type). Ensure effectiveness is at least 90% Wear a respirator which reduces the air impurities by at least a factor of 10 (APF >= 10). For further specification, refer to section 8 of the SDS Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS.
CS4; Mixing operations; Open systems; Filling of articles/equipment; With sample collection; IFRA F-4 (PROC 5)	Covers concentrations up to 100 % Covers use up to 4 h/day Provide a good standard of controlled ventilation (5 to 10 air changes per hour). Provide specifically designed and maintained LEV (fixed capturing hood type, on-tool extraction or enclosing hood type). Ensure effectiveness is at least 90% Wear a respirator which reduces the air impurities by at least a factor of 20 (APF >= 20). For further specification, refer to section 8 of the SDS Wear chemically resistant gloves (tested to EN374) in combination with specific activity training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS.
CS5; Laboratory activities; Use as laboratory reagent; IFRA F-5 (PROC 15)	Covers concentrations up to 100 % Covers use up to 0.25 h/day Provide a good standard of controlled ventilation (5 to 10 air changes per hour). Provide specifically designed and maintained LEV (fixed capturing hood type, on-tool extraction or enclosing hood type). Ensure effectiveness is at least 90% Wear a respirator which reduces the air impurities by at least a factor of 10 (APF >= 10). For further specification, refer to section 8 of the SDS Wear chemically resistant gloves (tested to EN374) in combination with '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 into small containers (dedicated filling line, including weighing); IFRA F-6 (PROC 9)	Covers concentrations up to 25 % Covers use up to 1 h/day Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Provide specifically designed and maintained LEV (fixed capturing hood type, on-tool extraction or enclosing hood type). Ensure effectiveness is at least 90% Wear a respirator which reduces the air impurities by at least a factor of 10 (APF >= 10). For further specification, refer to section 8 of the SDS Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS.
CS7; Equipment cleaning and maintenance; IFRA F-7 (PROC 8a)	Covers concentrations up to 25 % Covers use up to 4 h/day Provide a good standard of controlled ventilation (5 to 10 air changes per hour). Provide specifically designed and maintained LEV (fixed capturing hood type, on-tool extraction or enclosing hood type). Ensure effectiveness is at least 90%

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Wear a respirator which reduces the air impurities by at least a factor of 10 (APF $\geq$ 10). For further specification, refer to section 8 of the SDS

Wear chemically resistant gloves (tested to EN374) in combination with specific activity training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS.

1.3. Exposure estimation and reference to its source

1.3.1. Environmental release and exposure: GES 1; Formulation of fragrance compounds (mixing of fragrance substances into fragrance compounds); Small scale; AISE SPERC 2.1.b.v1 (ERC 2)

Release route	Release rate	Release estimation method
Water	0.15 kg/day	Estimated release factor
Air	0.75 kg/day	ERC
Soil	0 kg/day	Estimated release factor

Protection target	Exposure estimate	RCR
Fresh water	9.16E-4 mg/L (EUSES 2.1.2)	0.873
Sediment (freshwater)	0.091 mg/kg dw (EUSES 2.1.2)	0.873
Marine water	9.14E-5 mg/L (EUSES 2.1.2)	0.871
Sediment (marine water)	9.06E-3 mg/kg dw (EUSES 2.1.2)	0.871
Sewage Treatment Plant	8.8E-3 mg/L (EUSES 2.1.2)	< 0.01
Agricultural soil	0.018 mg/kg dw (EUSES 2.1.2)	0.9
Predator's prey (freshwater)	0.035 mg/kg ww (EUSES 2.1.2)	0.209
Predator's prey (marine water)	3.53E-3 mg/kg ww (EUSES 2.1.2)	0.021
Top predator's prey (marine water)	1E-3 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (terrestrial)	3.01E-3 mg/kg ww (EUSES 2.1.2)	0.018
Man via environment - Inhalation (systemic effects)	1.44E-4 mg/m ³ (EUSES 2.1.2)	< 0.01
Man via environment - Inhalation (local effects)	1.44E-4 mg/m ³ (EUSES 2.1.2)	< 0.01
Man via environment - Oral	6.76E-4 mg/kg bw/day (EUSES 2.1.2)	0.023
Man via environment - combined routes		0.025

1.3.2. 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	0.14 kg/day	Estimated release factor
Air	1.75 kg/day	ERC
Soil	7E-3 kg/day	Estimated release factor

Protection target	Exposure estimate	RCR
Fresh water	8.58E-4 mg/L (EUSES 2.1.2)	0.817
Sediment (freshwater)	0.085 mg/kg dw (EUSES 2.1.2)	0.817
Marine water	8.56E-5 mg/L (EUSES 2.1.2)	0.815
Sediment (marine water)	8.48E-3 mg/kg dw (EUSES 2.1.2)	0.816
Sewage Treatment Plant	8.21E-3 mg/L (EUSES 2.1.2)	< 0.01
Agricultural soil	0.017 mg/kg dw (EUSES 2.1.2)	0.843
Predator's prey (freshwater)	0.033 mg/kg ww (EUSES 2.1.2)	0.196
Predator's prey (marine water)	3.32E-3 mg/kg ww (EUSES 2.1.2)	0.02
Top predator's prey (marine water)	9.62E-4 mg/kg ww (EUSES 2.1.2)	< 0.01

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Predator's prey (terrestrial)	2.84E-3 mg/kg ww (EUSES 2.1.2)	0.017
Man via environment - Inhalation (systemic effects)	3.34E-4 mg/m ³ (EUSES 2.1.2)	< 0.01
Man via environment - Inhalation (local effects)	3.34E-4 mg/m ³ (EUSES 2.1.2)	< 0.01
Man via environment - Oral	1.36E-3 mg/kg bw/day (EUSES 2.1.2)	0.045
Man via environment - combined routes		0.051

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	0.024 mg/m ³ (TRA Workers 3.0)	0.077
Inhalation, systemic, acute	0.476 mg/m ³ (TRA Workers 3.0)	0.541
Inhalation, local, long term	0.024 mg/m ³ (TRA Workers 3.0)	0.108
Inhalation, local, acute	0.476 mg/m ³ (TRA Workers 3.0)	0.541
Dermal, systemic, long term	0.411 mg/kg bw/day (TRA Workers 3.0)	0.462
Dermal, local, long term	0.03 mg/cm ² (TRA Workers 3.0)	0.139
Dermal, local, acute	0.03 mg/cm ² (TRA Workers 3.0)	0.139
Combined, systemic, long term		0.539

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	1.11E-3 mg/m ³ (TRA Workers 3.0)	< 0.01
Inhalation, systemic, acute	0.022 mg/m ³ (TRA Workers 3.0)	0.025
Inhalation, local, long term	1.11E-3 mg/m ³ (TRA Workers 3.0)	< 0.01
Inhalation, local, acute	0.022 mg/m ³ (TRA Workers 3.0)	0.025
Dermal, systemic, long term	3.4E-4 mg/kg bw/day (TRA Workers 3.0)	< 0.01
Dermal, local, long term	9.92E-5 mg/cm ² (TRA Workers 3.0)	< 0.01
Dermal, local, acute	9.92E-5 mg/cm ² (TRA Workers 3.0)	< 0.01
Combined, systemic, long term		< 0.01

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

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.1 mg/m ³ (TRA Workers 3.0)	0.324
Inhalation, systemic, acute	0.666 mg/m ³ (TRA Workers 3.0)	0.757
Inhalation, local, long term	0.1 mg/m ³ (TRA Workers 3.0)	0.454
Inhalation, local, acute	0.666 mg/m ³ (TRA Workers 3.0)	0.757
Dermal, systemic, long term	0.069 mg/kg bw/day (TRA Workers 3.0)	0.078
Dermal, local, long term	0.02 mg/cm ² (TRA Workers 3.0)	0.094
Dermal, local, acute	0.02 mg/cm ² (TRA Workers 3.0)	0.094
Combined, systemic, long term		0.402

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	0.036 mg/m ³ (TRA Workers 3.0)	0.116
Inhalation, systemic, acute	0.238 mg/m ³ (TRA Workers 3.0)	0.27
Inhalation, local, long term	0.036 mg/m ³ (TRA Workers 3.0)	0.162
Inhalation, local, acute	0.238 mg/m ³ (TRA Workers 3.0)	0.27
Dermal, systemic, long term	0.686 mg/kg bw/day (TRA Workers 3.0)	0.77
Dermal, local, long term	0.1 mg/cm ² (TRA Workers 3.0)	0.465
Dermal, local, acute	0.1 mg/cm ² (TRA Workers 3.0)	0.465
Combined, systemic, long term		0.886

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	0.012 mg/m ³ (TRA Workers 3.0)	0.039

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Inhalation, systemic, acute	0.476 mg/m³ (TRA Workers 3.0)	0.541
Inhalation, local, long term	0.012 mg/m³ (TRA Workers 3.0)	0.054
Inhalation, local, acute	0.476 mg/m³ (TRA Workers 3.0)	0.541
Dermal, systemic, long term	0.034 mg/kg bw/day (TRA Workers 3.0)	0.038
Dermal, local, long term	9.92E-3 mg/cm² (TRA Workers 3.0)	0.046
Dermal, local, acute	9.92E-3 mg/cm² (TRA Workers 3.0)	0.046
Combined, systemic, long term		0.077

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	0.033 mg/m³ (TRA Workers 3.0)	0.108
Inhalation, systemic, acute	0.666 mg/m³ (TRA Workers 3.0)	0.757
Inhalation, local, long term	0.033 mg/m³ (TRA Workers 3.0)	0.151
Inhalation, local, acute	0.666 mg/m³ (TRA Workers 3.0)	0.757
Dermal, systemic, long term	0.412 mg/kg bw/day (TRA Workers 3.0)	0.462
Dermal, local, long term	0.06 mg/cm² (TRA Workers 3.0)	0.279
Dermal, local, acute	0.06 mg/cm² (TRA Workers 3.0)	0.279
Combined, systemic, long term		0.571

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	0.086 mg/m³ (TRA Workers 3.0)	0.278
Inhalation, systemic, acute	0.571 mg/m³ (TRA Workers 3.0)	0.649
Inhalation, local, long term	0.086 mg/m³ (TRA Workers 3.0)	0.389
Inhalation, local, acute	0.571 mg/m³ (TRA Workers 3.0)	0.649
Dermal, systemic, long term	0.411 mg/kg bw/day (TRA Workers 3.0)	0.462
Dermal, local, long term	0.03 mg/cm² (TRA Workers 3.0)	0.139
Dermal, local, acute	0.03 mg/cm² (TRA Workers 3.0)	0.139
Combined, systemic, long term		0.74

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

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

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

2.1. Title section

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

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

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7: IFRA SG-7; Cosmetics Europe SPERC 2.2.a.v2; Cosmetics Europe SPERC 2.2.c.v2

ERC 2

8: IFRA SG-8; Cosmetics Europe SPERC 2.1.d.v2; Cosmetics Europe SPERC 2.1.j.v2

ERC 2

Worker

9: CS1; Transfer of substance or mixture (charging/discharging) at dedicated facilities; AISE M-6

PROC 8b

10: CS2; Laboratory activities; Use as laboratory reagent; AISE M-9

PROC 15

11: CS3; Storage; AISE M-1

PROC 1

12: CS4; Mixing operations; Closed systems; Filling of articles/equipment; With sample collection; AISE M-3

PROC 3

13: CS5; Mixing or blending in batch processes; Open systems; With sample collection; AISE M-5

PROC 5

14: CS6; Equipment cleaning and maintenance

PROC 8a

15: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC 2

16: CS7; Transfer of substance or mixture into small containers (dedicated filling line, including weighing); AISE M-

PROC 9

7

17: CS8; Tableting, compression, extrusion or pelletisation; AISE M-8

PROC 14

2.2. Conditions of use affecting exposure

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

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

Daily amount per site <= 0.15 tonnes/day

Annual amount per site <= 37.5 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 <= 0.056 tonnes/day

Annual amount per site <= 14 tonnes/year

Conditions and measures related to biological sewage treatment plant

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

application of the STP sludge on agricultural soil; Yes

Municipal sewage treatment plant is assumed.

Other conditions affecting environmental exposure

Receiving surface water flow >= 1.8E4 m3/day

2.2.3. Control of environmental exposure: IFRA SG-3; AISE SPERC 2.1.c.v2; AISE SPERC 2.1.i.v2 (ERC 2)

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

Daily amount per site <= 0.046 tonnes/day

Annual amount per site <= 11.5 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

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Municipal sewage treatment plant is assumed.

Other conditions affecting environmental exposure

Receiving surface water flow $\geq 1.8E4$ 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 ≤ 0.042 tonnes/day

Annual amount per site ≤ 10.5 tonnes/year

Conditions and measures related to biological sewage treatment plant

Assumed domestic sewage treatment plant flow; $\geq 2E3$; 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 $\geq 1.8E4$ 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 ≤ 0.018 tonnes/day

Annual amount per site ≤ 4.5 tonnes/year

Conditions and measures related to biological sewage treatment plant

Assumed domestic sewage treatment plant flow; $\geq 2E3$; 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 $\geq 1.8E4$ m³/day

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

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

Daily amount per site ≤ 0.018 tonnes/day

Annual amount per site ≤ 4.5 tonnes/year

Conditions and measures related to biological sewage treatment plant

Assumed domestic sewage treatment plant flow; $\geq 2E3$; 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 $\geq 1.8E4$ 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 ≤ 0.064 tonnes/day

Annual amount per site ≤ 16 tonnes/year

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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 <= 6E-3 tonnes/day

Annual amount per site <= 1.5 tonnes/year

Conditions and measures related to biological sewage treatment plant

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

application of the STP sludge on agricultural soil; Yes

Municipal sewage treatment plant is assumed.

Other conditions affecting environmental exposure

Receiving surface water flow >= 1.8E4 m3/day

2.2.9. Control of worker exposure

Conditions of use applicable to all contributing scenarios

Product (article) characteristics

Liquid

Technical and organisational conditions and measures

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

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

Use suitable eye protection.

Other conditions affecting workers exposure

Indoor use

Assumes process temperature up to 40 °C

Specific conditions of use per contributing scenario

Contributing scenario	Specific conditions of use
CS1; Transfer of substance or mixture (charging/discharging) at dedicated facilities; AISE M-6 (PROC 8b)	Covers concentrations up to 25 % Covers use up to 1 h/day Room ventilation; Basic; Up to 3 air change per hour Provide enclosing hood with very high effectiveness (such as fume cupboard) or effective ventilation by spray booth according to EN 16985. Ensure effectiveness is at least 95%. Wear chemically resistant gloves (tested to EN374) in combination with specific activity training.; If skin contamination is expected to extend to other parts of the body, then these body parts should 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
CS2; Laboratory activities; Use as	Covers concentrations up to 25 %

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

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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 into small containers (dedicated filling line, including weighing); AISE M-7 (PROC 9)	Covers concentrations up to 1 % Covers use up to 1 h/day Room ventilation; Basic; Up to 3 air change per hour Provide specifically designed and maintained LEV (fixed capturing hood type, on-tool extraction or enclosing hood type). Ensure effectiveness is at least 90% 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
CS8; Tableting, compression, extrusion or pelletisation; AISE M-8 (PROC 14)	Covers concentrations up to 1 % Covers use up to 8 h/day Room ventilation; Basic; Up to 3 air change per hour Provide specifically designed and maintained LEV (fixed capturing hood type, on-tool extraction or enclosing hood type). Ensure effectiveness is at least 90% 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

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	0.015 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	1.26E-4 mg/L (EUSES 2.1.2)	0.12
Sediment (freshwater)	0.012 mg/kg dw (EUSES 2.1.2)	0.12
Marine water	1.24E-5 mg/L (EUSES 2.1.2)	0.118
Sediment (marine water)	1.22E-3 mg/kg dw (EUSES 2.1.2)	0.118
Sewage Treatment Plant	8.8E-4 mg/L (EUSES 2.1.2)	< 0.01
Agricultural soil	1.84E-3 mg/kg dw (EUSES 2.1.2)	0.091
Predator's prey (freshwater)	7.09E-3 mg/kg ww (EUSES 2.1.2)	0.042
Predator's prey (marine water)	6.89E-4 mg/kg ww (EUSES 2.1.2)	< 0.01
Top predator's prey (marine water)	4.37E-4 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (terrestrial)	3.2E-4 mg/kg ww (EUSES 2.1.2)	< 0.01
Man via environment - Inhalation (systemic effects)	7.1E-7 mg/m³ (EUSES 2.1.2)	< 0.01
Man via environment - Inhalation (local effects)	7.1E-7 mg/m³ (EUSES 2.1.2)	< 0.01
Man via environment - Oral	2.52E-5 mg/kg bw/day (EUSES 2.1.2)	< 0.01
Man via environment - combined routes		< 0.01

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

Release route	Release rate	Release estimation method
Water	0.056 kg/day	Estimated release factor

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Air	0 kg/day	Estimated release factor
Soil	0 kg/day	Estimated release factor

Protection target	Exposure estimate	RCR
Fresh water	3.66E-4 mg/L (EUSES 2.1.2)	0.348
Sediment (freshwater)	0.036 mg/kg dw (EUSES 2.1.2)	0.349
Marine water	3.64E-5 mg/L (EUSES 2.1.2)	0.346
Sediment (marine water)	3.61E-3 mg/kg dw (EUSES 2.1.2)	0.347
Sewage Treatment Plant	3.29E-3 mg/L (EUSES 2.1.2)	< 0.01
Agricultural soil	6.79E-3 mg/kg dw (EUSES 2.1.2)	0.336
Predator's prey (freshwater)	0.016 mg/kg ww (EUSES 2.1.2)	0.092
Predator's prey (marine water)	1.55E-3 mg/kg ww (EUSES 2.1.2)	< 0.01
Top predator's prey (marine water)	6.09E-4 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (terrestrial)	1.13E-3 mg/kg ww (EUSES 2.1.2)	< 0.01
Man via environment - Inhalation (systemic effects)	7.16E-7 mg/m ³ (EUSES 2.1.2)	< 0.01
Man via environment - Inhalation (local effects)	7.16E-7 mg/m ³ (EUSES 2.1.2)	< 0.01
Man via environment - Oral	6.6E-5 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	0.092 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	5.77E-4 mg/L (EUSES 2.1.2)	0.549
Sediment (freshwater)	0.057 mg/kg dw (EUSES 2.1.2)	0.549
Marine water	5.75E-5 mg/L (EUSES 2.1.2)	0.547
Sediment (marine water)	5.7E-3 mg/kg dw (EUSES 2.1.2)	0.548
Sewage Treatment Plant	5.4E-3 mg/L (EUSES 2.1.2)	< 0.01
Agricultural soil	0.011 mg/kg dw (EUSES 2.1.2)	0.552
Predator's prey (freshwater)	0.023 mg/kg ww (EUSES 2.1.2)	0.137
Predator's prey (marine water)	2.31E-3 mg/kg ww (EUSES 2.1.2)	0.014
Top predator's prey (marine water)	7.61E-4 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (terrestrial)	1.85E-3 mg/kg ww (EUSES 2.1.2)	0.011
Man via environment - Inhalation (systemic effects)	7.21E-7 mg/m ³ (EUSES 2.1.2)	< 0.01
Man via environment - Inhalation (local effects)	7.21E-7 mg/m ³ (EUSES 2.1.2)	< 0.01
Man via environment - Oral	1.02E-4 mg/kg bw/day (EUSES 2.1.2)	< 0.01
Man via environment - combined routes		< 0.01

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

Release route	Release rate	Release estimation method
Water	0.042 kg/day	Estimated release factor
Air	0 kg/day	Estimated release factor
Soil	0 kg/day	Estimated release factor

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Protection target	Exposure estimate	RCR
Fresh water	2.84E-4 mg/L (EUSES 2.1.2)	0.27
Sediment (freshwater)	0.028 mg/kg dw (EUSES 2.1.2)	0.27
Marine water	2.82E-5 mg/L (EUSES 2.1.2)	0.268
Sediment (marine water)	2.79E-3 mg/kg dw (EUSES 2.1.2)	0.268
Sewage Treatment Plant	2.46E-3 mg/L (EUSES 2.1.2)	< 0.01
Agricultural soil	5.1E-3 mg/kg dw (EUSES 2.1.2)	0.253
Predator's prey (freshwater)	0.013 mg/kg ww (EUSES 2.1.2)	0.075
Predator's prey (marine water)	1.26E-3 mg/kg ww (EUSES 2.1.2)	< 0.01
Top predator's prey (marine water)	5.5E-4 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (terrestrial)	8.56E-4 mg/kg ww (EUSES 2.1.2)	< 0.01
Man via environment - Inhalation (systemic effects)	7.14E-7 mg/m ³ (EUSES 2.1.2)	< 0.01
Man via environment - Inhalation (local effects)	7.14E-7 mg/m ³ (EUSES 2.1.2)	< 0.01
Man via environment - Oral	5.21E-5 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	0.036 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	2.49E-4 mg/L (EUSES 2.1.2)	0.237
Sediment (freshwater)	0.025 mg/kg dw (EUSES 2.1.2)	0.237
Marine water	2.47E-5 mg/L (EUSES 2.1.2)	0.235
Sediment (marine water)	2.44E-3 mg/kg dw (EUSES 2.1.2)	0.235
Sewage Treatment Plant	2.11E-3 mg/L (EUSES 2.1.2)	< 0.01
Agricultural soil	4.38E-3 mg/kg dw (EUSES 2.1.2)	0.217
Predator's prey (freshwater)	0.012 mg/kg ww (EUSES 2.1.2)	0.068
Predator's prey (marine water)	1.13E-3 mg/kg ww (EUSES 2.1.2)	< 0.01
Top predator's prey (marine water)	5.25E-4 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (terrestrial)	7.36E-4 mg/kg ww (EUSES 2.1.2)	< 0.01
Man via environment - Inhalation (systemic effects)	7.13E-7 mg/m ³ (EUSES 2.1.2)	< 0.01
Man via environment - Inhalation (local effects)	7.13E-7 mg/m ³ (EUSES 2.1.2)	< 0.01
Man via environment - Oral	4.61E-5 mg/kg bw/day (EUSES 2.1.2)	< 0.01
Man via environment - combined routes		< 0.01

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

Release route	Release rate	Release estimation method
Water	0.072 kg/day	Estimated release factor
Air	0 kg/day	Estimated release factor
Soil	0 kg/day	Estimated release factor

Protection target	Exposure estimate	RCR
Fresh water	4.59E-4 mg/L (EUSES 2.1.2)	0.438
Sediment (freshwater)	0.046 mg/kg dw (EUSES 2.1.2)	0.438
Marine water	4.58E-5 mg/L (EUSES 2.1.2)	0.436
Sediment (marine water)	4.53E-3 mg/kg dw (EUSES 2.1.2)	0.436

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Sewage Treatment Plant	4.22E-3 mg/L (EUSES 2.1.2)	< 0.01
Agricultural soil	8.73E-3 mg/kg dw (EUSES 2.1.2)	0.432
Predator's prey (freshwater)	0.019 mg/kg ww (EUSES 2.1.2)	0.112
Predator's prey (marine water)	1.89E-3 mg/kg ww (EUSES 2.1.2)	0.011
Top predator's prey (marine water)	6.76E-4 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (terrestrial)	1.45E-3 mg/kg ww (EUSES 2.1.2)	< 0.01
Man via environment - Inhalation (systemic effects)	7.18E-7 mg/m ³ (EUSES 2.1.2)	< 0.01
Man via environment - Inhalation (local effects)	7.18E-7 mg/m ³ (EUSES 2.1.2)	< 0.01
Man via environment - Oral	8.2E-5 mg/kg bw/day (EUSES 2.1.2)	< 0.01
Man via environment - combined routes		< 0.01

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

Release route	Release rate	Release estimation method
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	3.77E-5 mg/L (EUSES 2.1.2)	0.036
Sediment (freshwater)	3.73E-3 mg/kg dw (EUSES 2.1.2)	0.036
Marine water	3.57E-6 mg/L (EUSES 2.1.2)	0.034
Sediment (marine water)	3.54E-4 mg/kg dw (EUSES 2.1.2)	0.034
Sewage Treatment Plant	0 mg/L (EUSES 2.1.2)	< 0.01
Agricultural soil	2.35E-5 mg/kg dw (EUSES 2.1.2)	< 0.01
Predator's prey (freshwater)	3.94E-3 mg/kg ww (EUSES 2.1.2)	0.023
Predator's prey (marine water)	3.74E-4 mg/kg ww (EUSES 2.1.2)	< 0.01
Top predator's prey (marine water)	3.74E-4 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (terrestrial)	2.17E-5 mg/kg ww (EUSES 2.1.2)	< 0.01
Man via environment - Inhalation (systemic effects)	7.08E-7 mg/m ³ (EUSES 2.1.2)	< 0.01
Man via environment - Inhalation (local effects)	7.08E-7 mg/m ³ (EUSES 2.1.2)	< 0.01
Man via environment - Oral	1.02E-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	0.12 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	7.41E-4 mg/L (EUSES 2.1.2)	0.705
Sediment (freshwater)	0.073 mg/kg dw (EUSES 2.1.2)	0.706
Marine water	7.39E-5 mg/L (EUSES 2.1.2)	0.704
Sediment (marine water)	7.32E-3 mg/kg dw (EUSES 2.1.2)	0.704
Sewage Treatment Plant	7.04E-3 mg/L (EUSES 2.1.2)	< 0.01
Agricultural soil	0.015 mg/kg dw (EUSES 2.1.2)	0.719
Predator's prey (freshwater)	0.029 mg/kg ww (EUSES 2.1.2)	0.171
Predator's prey (marine water)	2.9E-3 mg/kg ww (EUSES 2.1.2)	0.017
Top predator's prey (marine water)	8.78E-4 mg/kg ww (EUSES 2.1.2)	< 0.01

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Predator's prey (terrestrial)	2.4E-3 mg/kg ww (EUSES 2.1.2)	0.014
Man via environment - Inhalation (systemic effects)	7.25E-7 mg/m ³ (EUSES 2.1.2)	< 0.01
Man via environment - Inhalation (local effects)	7.25E-7 mg/m ³ (EUSES 2.1.2)	< 0.01
Man via environment - Oral	1.3E-4 mg/kg bw/day (EUSES 2.1.2)	< 0.01
Man via environment - combined routes		< 0.01

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

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.024 mg/m ³ (TRA Workers 3.0)	0.077
Inhalation, systemic, acute	0.476 mg/m ³ (TRA Workers 3.0)	0.541
Inhalation, local, long term	0.024 mg/m ³ (TRA Workers 3.0)	0.108
Inhalation, local, acute	0.476 mg/m ³ (TRA Workers 3.0)	0.541
Dermal, systemic, long term	0.411 mg/kg bw/day (TRA Workers 3.0)	0.462
Dermal, local, long term	0.03 mg/cm ² (TRA Workers 3.0)	0.139
Dermal, local, acute	0.03 mg/cm ² (TRA Workers 3.0)	0.139
Combined, systemic, long term		0.539

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

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.017 mg/m ³ (TRA Workers 3.0)	0.054
Inhalation, systemic, acute	0.666 mg/m ³ (TRA Workers 3.0)	0.757
Inhalation, local, long term	0.017 mg/m ³ (TRA Workers 3.0)	0.076
Inhalation, local, acute	0.666 mg/m ³ (TRA Workers 3.0)	0.757
Dermal, systemic, long term	0.02 mg/kg bw/day (TRA Workers 3.0)	0.023
Dermal, local, long term	5.95E-3 mg/cm ² (TRA Workers 3.0)	0.028
Dermal, local, acute	5.95E-3 mg/cm ² (TRA Workers 3.0)	0.028
Combined, systemic, long term		0.077

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	9.51E-3 mg/m ³ (TRA Workers 3.0)	0.031
Inhalation, systemic, acute	0.19 mg/m ³ (TRA Workers 3.0)	0.216
Inhalation, local, long term	9.51E-3 mg/m ³ (TRA Workers 3.0)	0.043
Inhalation, local, acute	0.19 mg/m ³ (TRA Workers 3.0)	0.216
Dermal, systemic, long term	2.04E-3 mg/kg bw/day (TRA Workers 3.0)	< 0.01
Dermal, local, long term	5.95E-4 mg/cm ² (TRA Workers 3.0)	< 0.01
Dermal, local, acute	5.95E-4 mg/cm ² (TRA Workers 3.0)	< 0.01
Combined, systemic, long term		0.033

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	0.086 mg/m ³ (TRA Workers 3.0)	0.278
Inhalation, systemic, acute	0.571 mg/m ³ (TRA Workers 3.0)	0.649
Inhalation, local, long term	0.086 mg/m ³ (TRA Workers 3.0)	0.389
Inhalation, local, acute	0.571 mg/m ³ (TRA Workers 3.0)	0.649
Dermal, systemic, long term	0.041 mg/kg bw/day (TRA Workers 3.0)	0.047
Dermal, local, long term	0.012 mg/cm ² (TRA Workers 3.0)	0.056
Dermal, local, acute	0.012 mg/cm ² (TRA Workers 3.0)	0.056
Combined, systemic, long term		0.325

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

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.043 mg/m ³ (TRA Workers 3.0)	0.139

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Inhalation, systemic, acute	0.285 mg/m ³ (TRA Workers 3.0)	0.324
Inhalation, local, long term	0.043 mg/m ³ (TRA Workers 3.0)	0.195
Inhalation, local, acute	0.285 mg/m ³ (TRA Workers 3.0)	0.324
Dermal, systemic, long term	0.411 mg/kg bw/day (TRA Workers 3.0)	0.462
Dermal, local, long term	0.06 mg/cm ² (TRA Workers 3.0)	0.279
Dermal, local, acute	0.06 mg/cm ² (TRA Workers 3.0)	0.279
Combined, systemic, long term		0.601

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	0.048 mg/m ³ (TRA Workers 3.0)	0.154
Inhalation, systemic, acute	0.317 mg/m ³ (TRA Workers 3.0)	0.36
Inhalation, local, long term	0.048 mg/m ³ (TRA Workers 3.0)	0.216
Inhalation, local, acute	0.317 mg/m ³ (TRA Workers 3.0)	0.36
Dermal, systemic, long term	0.137 mg/kg bw/day (TRA Workers 3.0)	0.154
Dermal, local, long term	1E-2 mg/cm ² (TRA Workers 3.0)	0.046
Dermal, local, acute	1E-2 mg/cm ² (TRA Workers 3.0)	0.046
Combined, systemic, long term		0.308

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	9.51E-3 mg/m ³ (TRA Workers 3.0)	0.031
Inhalation, systemic, acute	0.19 mg/m ³ (TRA Workers 3.0)	0.216
Inhalation, local, long term	9.51E-3 mg/m ³ (TRA Workers 3.0)	0.043
Inhalation, local, acute	0.19 mg/m ³ (TRA Workers 3.0)	0.216
Dermal, systemic, long term	0.082 mg/kg bw/day (TRA Workers 3.0)	0.092
Dermal, local, long term	0.012 mg/cm ² (TRA Workers 3.0)	0.056
Dermal, local, acute	0.012 mg/cm ² (TRA Workers 3.0)	0.056
Combined, systemic, long term		0.123

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	7.93E-3 mg/m ³ (TRA Workers 3.0)	0.026
Inhalation, systemic, acute	0.159 mg/m ³ (TRA Workers 3.0)	0.18
Inhalation, local, long term	7.93E-3 mg/m ³ (TRA Workers 3.0)	0.036
Inhalation, local, acute	0.159 mg/m ³ (TRA Workers 3.0)	0.18
Dermal, systemic, long term	0.069 mg/kg bw/day (TRA Workers 3.0)	0.077
Dermal, local, long term	0.01 mg/cm ² (TRA Workers 3.0)	0.047
Dermal, local, acute	0.01 mg/cm ² (TRA Workers 3.0)	0.047
Combined, systemic, long term		0.103

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	0.04 mg/m ³ (TRA Workers 3.0)	0.129
Inhalation, systemic, acute	0.159 mg/m ³ (TRA Workers 3.0)	0.18
Inhalation, local, long term	0.04 mg/m ³ (TRA Workers 3.0)	0.18
Inhalation, local, acute	0.159 mg/m ³ (TRA Workers 3.0)	0.18
Dermal, systemic, long term	0.034 mg/kg bw/day (TRA Workers 3.0)	0.039
Dermal, local, long term	5E-3 mg/cm ² (TRA Workers 3.0)	0.023
Dermal, local, acute	5E-3 mg/cm ² (TRA Workers 3.0)	0.023
Combined, systemic, long term		0.167

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,

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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).

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

3.1. Title section

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

Product category: Washing and Cleaning Products (PC 35)

Environment

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

ERC 4

Worker

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

PROC 1

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

PROC 2

4: Industrial use; Dedicated equipment; Pharmaceuticals; CS21-u; Disinfection product. Semi-automatic process; AISE-P810

PROC 4

5: Industrial use of vehicle cleaning products; CS5-u; Train cleaner. Semi-Automatic process; AISE-P707; CS6-u; Aeroplane cleaner. Semi-Automatic process; AISE-P708; CS7-u; Car wash product. Semi-Automatic process; AISE-P709; CS10-u; Dewaxing product. Semi-Automatic process; AISE-P712; CS14-u; Food process cleaner. Semi closed cleaning process; AISE-P802

PROC 4

6: Industrial use of water treatment products; CS24-u; Preservation and sanitation agent . Drink and pool water; AISE-P904; CS23-u; Sanitation agent. Waste water; AISE-P905

PROC 4

7: Industrial use of vehicle cleaning products; CS8-u; Car wash product. Spray and rinse process; AISE-P710

PROC 7

8: Industrial use of vehicle cleaning products; CS12-u1; Car wash product. Spray and wipe manual process; AISE-P711; CS9-u1; Boat cleaner. Spray and wipe manual process; AISE-P714

PROC 7

9: Industrial use of food beverage and pharmaceutical products; CS18-u; Foam cleaner. Semi-Automatic with venting process; AISE-P806

PROC 7

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

PROC 7

11: Industrial use of façade/surface cleaning products; CS25-u; Façade/surface cleaner. High pressure process; AISE-P906; CS26-u; Façade/surface cleaner. Medium pressure process; AISE-P907

PROC 7

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

PROC 8b

13: Industrial use of water treatment products; CS23-p; Preservation and sanitation agent . Drink and pool water; AISE-P904; CS24-p; Sanitation agent. Waste water; AISE-P905; Industrial use of façade/surface cleaning products; CS25-p; Façade/surface cleaner. High pressure process; AISE-P906; CS26-p; Façade/surface cleaner. Medium pressure process; AISE-P907

PROC 8b

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

PROC 8b

15: Industrial use of vehicle cleaning products; CS9-p; Car wash product. Spray and wipe manual process; AISE-P711; CS11-p; Boat cleaner. Manual process; AISE-P713; CS12-p; Boat cleaner. Spray and wipe manual process;

PROC 8b

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

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

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

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

3.2. Conditions of use affecting exposure

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

3.2.2. Control of worker exposure

Conditions of use applicable to all contributing scenarios

Product (article) characteristics

Liquid

Covers concentrations up to 1 %

Technical and organisational conditions and measures

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

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

Use suitable eye protection.

Other conditions affecting workers exposure

Assumes process temperature up to 40 °C

Specific conditions of use per contributing scenario

Contributing scenario	Specific conditions of use
Industrial use of food beverage and pharmaceutical products; CS13-u; Food process cleaner. Cleaning In place (CIP) process; AISE-P801; CS17-u; Defoaming product. Automatic process; AISE-P805 (PROC 1)	Covers use up to 8 h/day Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Local exhaust ventilation; No. Respiratory protection; No. Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Body parts potentially exposed; One hand face only (240 cm2) Indoor use
Industrial use of laundry products; CS1-u; Laundry detergent. Automatic process; AISE-P101; CS2-u; Conditioner (softener/starch). Automatic process; AISE-P104; CS3-u; Laundry aid (gasing). Automatic process; AISE-P107; CS4-u; Laundry aid (non-gasing). Automatic process; AISE-P110 (PROC 2)	Covers use up to 8 h/day Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Local exhaust ventilation; No. Wear a respirator which reduces the air impurities by at least a factor of 10 (APF >= 10). For further specification, refer to section 8 of the SDS Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Body parts potentially exposed; Two hands face only (480 cm2) Indoor use

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Industrial use; Dedicated equipment; Pharmaceuticals; CS21-u; Disinfection product. Semi-automatic process; AISE-P810 (PROC 4)	Covers use up to 4 h/day Room ventilation; Basic; Up to 3 air change per hour Provide specifically designed and maintained LEV (fixed capturing hood type, on-tool extraction or enclosing hood type). Ensure effectiveness is at least 90% Wear a respirator which reduces the air impurities by at least a factor of 10 (APF >= 10). For further specification, refer to section 8 of the SDS Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Body parts potentially exposed; Two hands face only (480 cm2) Indoor use
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)	Covers use up to 8 h/day Room ventilation; Basic; Up to 3 air change per hour Local exhaust ventilation; No. Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Wear a respirator which reduces the air impurities by at least a factor of 20 (APF >= 20). For further specification, refer to section 8 of the SDS Body parts potentially exposed; Two hands face only (480 cm2) Outdoor use
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)	Covers use up to 8 h/day Room ventilation; Basic; Up to 3 air change per hour Local exhaust ventilation; No. Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Wear a respirator which reduces the air impurities by at least a factor of 20 (APF >= 20). For further specification, refer to section 8 of the SDS Body parts potentially exposed; Two hands face only (480 cm2) Outdoor use
Industrial use of vehicle cleaning products; CS8-u; Car wash product. Spray and rinse process; AISE-P710 (PROC 7)	Covers use up to 1 h/day Room ventilation; Basic; Up to 3 air change per hour Local exhaust ventilation; No. Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Respiratory protection; No. Body parts potentially exposed; Assumes 2 hands and forearms (1500 cm2) Outdoor use
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)	Covers use up to 1 h/day Room ventilation; Basic; Up to 3 air change per hour Local exhaust ventilation; No. Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Wear a respirator which reduces the air impurities by at least a factor of 20 (APF >= 20). For further specification, refer to section 8 of the SDS Body parts potentially exposed; Assumes 2 hands and forearms (1500 cm2) Outdoor use
Industrial use of food beverage and pharmaceutical products; CS18-u; Foam cleaner. Semi-Automatic with venting process; AISE-P806 (PROC 7)	Covers use up to 8 h/day Room ventilation; Basic; Up to 3 air change per hour Provide enclosing hood with very high effectiveness (such as fume cupboard) or effective ventilation by spray booth according to EN 16985. Ensure effectiveness is at least 95%. Wear a respirator which reduces the air impurities by at least a factor of 20 (APF >= 20). For further

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	specification, refer to section 8 of the SDS Wear chemically resistant gloves (tested to EN374) in combination with specific activity training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Body parts potentially exposed; Assumes 2 hands and forearms (1500 cm2) Indoor use
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)	Covers use up to 8 h/day Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Local exhaust ventilation; No. Wear a respirator which reduces the air impurities by at least a factor of 10 (APF >= 10). For further specification, refer to section 8 of the SDS Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Body parts potentially exposed; Assumes 2 hands and forearms (1500 cm2) Indoor use
Industrial use of façade/surface cleaning products; CS25-u; Façade/surface cleaner. High pressure process; AISE-P906; CS26-u; Façade/surface cleaner. Medium pressure process; AISE-P907 (PROC 7)	Covers use up to 8 h/day Room ventilation; Basic; Up to 3 air change per hour Local exhaust ventilation; No. Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Wear a respirator which reduces the air impurities by at least a factor of 10 (APF >= 10). For further specification, refer to section 8 of the SDS Body parts potentially exposed; Assumes 2 hands and forearms (1500 cm2) Outdoor use
Industrial use of laundry products; CS1-p; Laundry detergent. Automatic process; AISE-P101; CS2-p; Conditioner (softener/starch). Automatic process; AISE-P104; CS3-p; Laundry aid (gasing). Automatic process; AISE-P107; CS4-p; Laundry aid (non-gasing). Automatic process; AISE-P110; CS13-p; Industrial use of food beverage and pharmaceutical products; AISE-P801; CS14-p; Food process cleaner. Cleaning In place (CIP) process; AISE-P802; CS15-p; Chain maintenance product. Automatic spray process; AISE-P803; CS17-p; Defoaming product. Automatic process; AISE-P805 (PROC 8b)	Covers use up to 0.25 h/day Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Local exhaust ventilation; No. Wear a respirator which reduces the air impurities by at least a factor of 20 (APF >= 20). For further specification, refer to section 8 of the SDS Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Body parts potentially exposed; Two hands (960 cm2) Indoor use
Industrial use of water treatment products; CS23-p; Preservation and sanitation agent . Drink and pool water; AISE-P904; CS24-p; Sanitation agent. Waste water; AISE-P905; Industrial use of façade/surface cleaning products; CS25-p; Façade/surface cleaner. High pressure process; AISE-P906; CS26-p; Façade/surface cleaner. Medium pressure process; AISE-P907 (PROC 8b)	Covers use up to 0.25 h/day Room ventilation; Basic; Up to 3 air change per hour Local exhaust ventilation; No. Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. 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 Body parts potentially exposed; Two hands (960 cm2) Outdoor use
Industrial use of vehicle cleaning	Covers use up to 1 h/day

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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)	Room ventilation; Basic; Up to 3 air change per hour Local exhaust ventilation; No. Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Wear a respirator which reduces the air impurities by at least a factor of 20 (APF >= 20). For further specification, refer to section 8 of the SDS Body parts potentially exposed; Two hands (960 cm2) Outdoor use
Industrial use of vehicle cleaning products; CS9-p; Car wash product. Spray and wipe manual process; AISE-P711; CS11-p; Boat cleaner. Manual process; AISE-P713; CS12-p; Boat cleaner. Spray and wipe manual process; AISE-P714 (PROC 8b)	Covers use up to 1 h/day Room ventilation; Basic; Up to 3 air change per hour Local exhaust ventilation; No. Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. 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 Body parts potentially exposed; Two hands (960 cm2) Outdoor use
Industrial use of food beverage and pharmaceutical products; CS20-p; Animal housing care. Semi-Automatic process; AISE-P809; CS21-p; Disinfection product. Semi-automatic process; AISE-P810 (PROC 8b)	Covers use up to 1 h/day Room ventilation; Basic; Up to 3 air change per hour Local exhaust ventilation; No. Wear a respirator which reduces the air impurities by at least a factor of 20 (APF >= 20). For further specification, refer to section 8 of the SDS Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Body parts potentially exposed; Two hands (960 cm2) Indoor use
Industrial use of food beverage and pharmaceutical products; CS18-p; Foam cleaner. Semi-Automatic with venting process; AISE-P806 (PROC 8b)	Covers use up to 1 h/day Room ventilation; Basic; Up to 3 air change per hour Provide enclosing hood with very high effectiveness (such as fume cupboard) or effective ventilation by spray booth according to EN 16985. Ensure effectiveness is at least 95%. Respiratory protection; No. Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Body parts potentially exposed; Two hands (960 cm2) Indoor use
Industrial use of vehicle cleaning products; CS9-u2; Car wash product. Spray and wipe manual process; AISE-P711; CS12-u2; Boat cleaner. Manual process; AISE-P713; CS11-u; Boat cleaner. Spray and wipe manual process; AISE-P714 (PROC 10)	Covers use up to 8 h/day Room ventilation; Basic; Up to 3 air change per hour Local exhaust ventilation; No. Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Respiratory protection; No. Body parts potentially exposed; Two hands (960 cm2) Outdoor use
Industrial use of food beverage and	Covers use up to 8 h/day

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pharmaceutical products; CS16-u; Chain maintenance product. Automatic drip and brush process; AISE-P804 (PROC 13)	Room ventilation; Basic; Up to 3 air change per hour Provide specifically designed and maintained LEV (fixed capturing hood type, on-tool extraction or enclosing hood type). Ensure effectiveness is at least 90% Wear a respirator which reduces the air impurities by at least a factor of 10 (APF >= 10). For further specification, refer to section 8 of the SDS Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Body parts potentially exposed; Two hands face only (480 cm2) Indoor use
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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	5.55E-3 mg/m ³ (TRA Workers 3.0)	0.018
Inhalation, systemic, acute	0.022 mg/m ³ (TRA Workers 3.0)	0.025
Inhalation, local, long term	5.55E-3 mg/m ³ (TRA Workers 3.0)	0.025
Inhalation, local, acute	0.022 mg/m ³ (TRA Workers 3.0)	0.025
Dermal, systemic, long term	3.4E-4 mg/kg bw/day (TRA Workers 3.0)	< 0.01
Dermal, local, long term	9.92E-5 mg/cm ² (TRA Workers 3.0)	< 0.01
Dermal, local, acute	9.92E-5 mg/cm ² (TRA Workers 3.0)	< 0.01
Combined, systemic, long term		0.018

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

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.055 mg/m ³ (TRA Workers 3.0)	0.18
Inhalation, systemic, acute	0.222 mg/m ³ (TRA Workers 3.0)	0.252
Inhalation, local, long term	0.055 mg/m ³ (TRA Workers 3.0)	0.252
Inhalation, local, acute	0.222 mg/m ³ (TRA Workers 3.0)	0.252
Dermal, systemic, long term	0.014 mg/kg bw/day (TRA Workers 3.0)	0.015
Dermal, local, long term	2E-3 mg/cm ² (TRA Workers 3.0)	< 0.01
Dermal, local, acute	2E-3 mg/cm ² (TRA Workers 3.0)	< 0.01
Combined, systemic, long term		0.196

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

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.024 mg/m ³ (TRA Workers 3.0)	0.077
Inhalation, systemic, acute	0.159 mg/m ³ (TRA Workers 3.0)	0.18

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Inhalation, local, long term	0.024 mg/m ³ (TRA Workers 3.0)	0.108
Inhalation, local, acute	0.159 mg/m ³ (TRA Workers 3.0)	0.18
Dermal, systemic, long term	0.069 mg/kg bw/day (TRA Workers 3.0)	0.077
Dermal, local, long term	0.01 mg/cm ² (TRA Workers 3.0)	0.047
Dermal, local, acute	0.01 mg/cm ² (TRA Workers 3.0)	0.047
Combined, systemic, long term		0.154

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

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.139 mg/m ³ (TRA Workers 3.0)	0.45
Inhalation, systemic, acute	0.555 mg/m ³ (TRA Workers 3.0)	0.631
Inhalation, local, long term	0.139 mg/m ³ (TRA Workers 3.0)	0.631
Inhalation, local, acute	0.555 mg/m ³ (TRA Workers 3.0)	0.631
Dermal, systemic, long term	0.069 mg/kg bw/day (TRA Workers 3.0)	0.077
Dermal, local, long term	0.01 mg/cm ² (TRA Workers 3.0)	0.047
Dermal, local, acute	0.01 mg/cm ² (TRA Workers 3.0)	0.047
Combined, systemic, long term		0.528

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

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.139 mg/m ³ (TRA Workers 3.0)	0.45
Inhalation, systemic, acute	0.555 mg/m ³ (TRA Workers 3.0)	0.631
Inhalation, local, long term	0.139 mg/m ³ (TRA Workers 3.0)	0.631
Inhalation, local, acute	0.555 mg/m ³ (TRA Workers 3.0)	0.631
Dermal, systemic, long term	0.069 mg/kg bw/day (TRA Workers 3.0)	0.077
Dermal, local, long term	0.01 mg/cm ² (TRA Workers 3.0)	0.047
Dermal, local, acute	0.01 mg/cm ² (TRA Workers 3.0)	0.047
Combined, systemic, long term		0.528

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

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)

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	0.198 mg/m ³ (TRA Workers 3.0)	0.644
Inhalation, systemic, acute	0.793 mg/m ³ (TRA Workers 3.0)	0.901
Inhalation, local, long term	0.198 mg/m ³ (TRA Workers 3.0)	0.901
Inhalation, local, acute	0.793 mg/m ³ (TRA Workers 3.0)	0.901
Dermal, systemic, long term	0.214 mg/kg bw/day (TRA Workers 3.0)	0.241
Dermal, local, long term	0.01 mg/cm ² (TRA Workers 3.0)	0.047
Dermal, local, acute	0.01 mg/cm ² (TRA Workers 3.0)	0.047
Combined, systemic, long term		0.884

3.3.10. Worker exposure: Industrial use of food beverage and pharmaceutical products; CS15-

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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)

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)

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

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.014 mg/m ³ (TRA Workers 3.0)	0.045
Inhalation, systemic, acute	0.555 mg/m ³ (TRA Workers 3.0)	0.631
Inhalation, local, long term	0.014 mg/m ³ (TRA Workers 3.0)	0.063
Inhalation, local, acute	0.555 mg/m ³ (TRA Workers 3.0)	0.631
Dermal, systemic, long term	0.137 mg/kg bw/day (TRA Workers 3.0)	0.154
Dermal, local, long term	1E-2 mg/cm ² (TRA Workers 3.0)	0.046
Dermal, local, acute	1E-2 mg/cm ² (TRA Workers 3.0)	0.046
Combined, systemic, long term		0.199

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	0.014 mg/m ³ (TRA Workers 3.0)	0.045
Inhalation, systemic, acute	0.555 mg/m ³ (TRA Workers 3.0)	0.631
Inhalation, local, long term	0.014 mg/m ³ (TRA Workers 3.0)	0.063
Inhalation, local, acute	0.555 mg/m ³ (TRA Workers 3.0)	0.631
Dermal, systemic, long term	0.137 mg/kg bw/day (TRA Workers 3.0)	0.154
Dermal, local, long term	1E-2 mg/cm ² (TRA Workers 3.0)	0.046
Dermal, local, acute	1E-2 mg/cm ² (TRA Workers 3.0)	0.046
Combined, systemic, long term		0.199

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	0.028 mg/m ³ (TRA Workers 3.0)	0.09

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Inhalation, systemic, acute	0.555 mg/m ³ (TRA Workers 3.0)	0.631
Inhalation, local, long term	0.028 mg/m ³ (TRA Workers 3.0)	0.126
Inhalation, local, acute	0.555 mg/m ³ (TRA Workers 3.0)	0.631
Dermal, systemic, long term	0.137 mg/kg bw/day (TRA Workers 3.0)	0.154
Dermal, local, long term	1E-2 mg/cm ² (TRA Workers 3.0)	0.046
Dermal, local, acute	1E-2 mg/cm ² (TRA Workers 3.0)	0.046
Combined, systemic, long term		0.244

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	0.028 mg/m ³ (TRA Workers 3.0)	0.09
Inhalation, systemic, acute	0.555 mg/m ³ (TRA Workers 3.0)	0.631
Inhalation, local, long term	0.028 mg/m ³ (TRA Workers 3.0)	0.126
Inhalation, local, acute	0.555 mg/m ³ (TRA Workers 3.0)	0.631
Dermal, systemic, long term	0.137 mg/kg bw/day (TRA Workers 3.0)	0.154
Dermal, local, long term	1E-2 mg/cm ² (TRA Workers 3.0)	0.046
Dermal, local, acute	1E-2 mg/cm ² (TRA Workers 3.0)	0.046
Combined, systemic, long term		0.244

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	0.04 mg/m ³ (TRA Workers 3.0)	0.129
Inhalation, systemic, acute	0.793 mg/m ³ (TRA Workers 3.0)	0.901
Inhalation, local, long term	0.04 mg/m ³ (TRA Workers 3.0)	0.18
Inhalation, local, acute	0.793 mg/m ³ (TRA Workers 3.0)	0.901
Dermal, systemic, long term	0.137 mg/kg bw/day (TRA Workers 3.0)	0.154
Dermal, local, long term	1E-2 mg/cm ² (TRA Workers 3.0)	0.046
Dermal, local, acute	1E-2 mg/cm ² (TRA Workers 3.0)	0.046
Combined, systemic, long term		0.283

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	0.04 mg/m ³ (TRA Workers 3.0)	0.129
Inhalation, systemic, acute	0.793 mg/m ³ (TRA Workers 3.0)	0.901
Inhalation, local, long term	0.04 mg/m ³ (TRA Workers 3.0)	0.18
Inhalation, local, acute	0.793 mg/m ³ (TRA Workers 3.0)	0.901
Dermal, systemic, long term	0.137 mg/kg bw/day (TRA Workers 3.0)	0.154
Dermal, local, long term	1E-2 mg/cm ² (TRA Workers 3.0)	0.046
Dermal, local, acute	1E-2 mg/cm ² (TRA Workers 3.0)	0.046
Combined, systemic, long term		0.283

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)

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	0.079 mg/m ³ (TRA Workers 3.0)	0.257
Inhalation, systemic, acute	0.317 mg/m ³ (TRA Workers 3.0)	0.36
Inhalation, local, long term	0.079 mg/m ³ (TRA Workers 3.0)	0.36

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Inhalation, local, acute	0.317 mg/m³ (TRA Workers 3.0)	0.36
Dermal, systemic, long term	0.137 mg/kg bw/day (TRA Workers 3.0)	0.154
Dermal, local, long term	0.02 mg/cm² (TRA Workers 3.0)	0.093
Dermal, local, acute	0.02 mg/cm² (TRA Workers 3.0)	0.093
Combined, systemic, long term		0.411

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

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

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

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

4.1. Title section

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

Product category: Washing and Cleaning Products (PC 35)

Environment

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

ERC 8a

Worker

2: Professional use of laundry products; CS1-u; Laundry detergent. Semi automatic process; AISE-P102; CS3-u; PROC 1

Conditioner (softener/starch). Semi automatic process; AISE-P105; CS4-u; Laundry aid (gasing). Semi automatic process; AISE-P108; CS5-u; Laundry aid (non-gasing). Semi automatic process; AISE-P111; Professional use of dishwashing products; CS10-u; Dishwash product. Semi-Automatic process; AISE-P203; CS11-u; Rinse aid. Automatic process; AISE-P204; Professional use of medical devices; CS48-u; Medical devices . Semi-automatic process; AISE-P1101

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

PROC 2

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

PROC 4

5: Professional use of vehicle cleaning products; Semi-automated task; CS39-u; Car wash product. Semi-Automatic process; AISE-P701; CS42-u; Dewaxing product. Semi-Automatic process; AISE-P704

PROC 4

6: Professional use of laundry products; CS1-p; Laundry detergent. Semi automatic process; AISE-P102; CS3-p; PROC 8a

Conditioner (softener/starch). Semi automatic process; AISE-P105; CS4-p; Laundry aid (gasing). Semi automatic process; AISE-P108; CS5-p; Laundry aid (non-gasing). Semi automatic process; AISE-P111; CS6-p; Laundry aid (non-gasing). Manual process; AISE-P112; Professional use of dishwashing products; CS10-p; Dishwash product. Semi-Automatic process; AISE-P203; CS11-p; Rinse aid. Automatic process; AISE-P204; Professional use of general surface cleaning products; CS20-p; Descaling agent. Dipping process; AISE-P309; Professional use of medical devices; CS48-p; Medical devices . Semi-automatic process; AISE-P1101; CS49-p; Medical devices . Dipping process; AISE-P1102

7: Professional use of façade/surface cleaning products; CS46-p; Façade/surface cleaner. High pressure process; AISE-P901; CS47-p; Façade/surface cleaner. Medium pressure process; AISE-P902

PROC 8a

8: Professional use of dishwashing products; CS8-p; Dishwash product. Manual process; AISE-P201

PROC 8a

9: Professional use of floor care products; CS31-p; Floor cleaner. Manual process; AISE-P403; CS29-p; Floor 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

PROC 8a

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process; AISE-P301; CS13-p; General purpose cleaner. Spray and wipe manual process; AISE-P302; CS14-p; Kitchen cleaner. Manual process; AISE-P303; CS15-p; Kitchen cleaner. Spray and wipe manual process; AISE-P304; CS16-p; Sanitary cleaner. Manual process; AISE-P305; CS17-p; Sanitary cleaner. Spray and wipe manual process; AISE-P306; CS23-p; Glass cleaner. Manual process; AISE-P312; Professional use; Pharmaceuticals; CS45-p; Animal housing care. Manual process; AISE-P808; Professional use of medical devices; CS51-p; Medical devices . Spray process; AISE-P1104		
10: Professional use of vehicle cleaning products; CS39-p; Car wash product. Semi-Automatic process; AISE-P701; CS40-p; Car wash product. Spray and wipe manual process; AISE-P702; CS42-p; Dewaxing product. Semi-Automatic process; AISE-P704; Professional use of laundry products; CS2-p; Laundry detergent. Manual process; AISE-P103; Professional use of general surface cleaning products; CS19-p; Descaling agent. Spray and rinse manual process; AISE-P308; CS25-p; Surface disinfectant. Manual process; AISE-P314; CS26-p; Surface disinfectant. Spray and rinse manual process; AISE-P315; Professional use of floor care products; CS32-p; Floor stripper. Manual process; AISE-P404; CS33-p; Floor stripper. Semi-Automatic process; AISE-P405; Professional use of medical devices; CS50-p; Medical devices . Manual process; AISE-P1103	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	PROC 8b	
13: Professional use of general surface cleaning products; CS21-u; Oven/Grill Cleaner. Manual process; AISE-P310	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	PROC 10	
15: Professional use of general surface cleaning products; CS18-u; Descaling agent. Manual process; AISE-P307	PROC 10	
16: Professional use of floor care products; CS31-u; Floor cleaner. Manual process; AISE-P403; Professional use of laundry products; CS7-u1; Prespotter/Stain remover. Manual process; AISE-P113; Professional use of general surface cleaning products; CS12-u; General purpose cleaner. Manual process; AISE-P301; CS13-u1; General purpose cleaner. Spray and wipe manual process; AISE-P302; CS14-u; Kitchen cleaner. Manual process; AISE-P303; CS15-u1; Kitchen cleaner. Spray and wipe manual process; AISE-P304; CS16-u; Sanitary cleaner. Manual process; AISE-P305; CS17-u1; Sanitary cleaner. Spray and wipe manual process; AISE-P306; CS23-u; Glass cleaner. Manual process; AISE-P312; CS24-u1; Glass cleaner. Spray and wipe manual process; AISE-P313; CS25-u; Surface disinfectant. Manual process; AISE-P314; CS26-u1; Surface disinfectant. Spray and rinse manual process; AISE-P315; CS27-u; Metal cleaning agent. Manual process; AISE-P316; 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	
17: 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	
18: 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	
19: Professional use of façade/surface cleaning products; CS47-u1; Façade/surface cleaner. Medium pressure process; AISE-P902	PROC 10	
20: Professional use of vehicle cleaning products; CS40-u; Car wash product. Spray and rinse process; AISE-P702; Professional use of laundry products; CS7-u2; Prespotter/Stain remover. Manual process; AISE-P113; Professional use of general surface cleaning products; CS13-u2; General purpose cleaner. Spray and wipe manual process; AISE-P302; CS15-u2; Kitchen cleaner. Spray and wipe manual process; AISE-P304; CS17-u2; Sanitary cleaner. Spray and wipe manual process; AISE-P306; CS24-u2; Glass cleaner. Spray and wipe manual process; AISE-P313; CS26-u2; Surface disinfectant. Spray and rinse manual process; AISE-P315; Professional use of floor care products; CS30-u2; Floor cleaner. Spray and wipe manual process; AISE-P402; CS36-u2; Carpet cleaner. Spray and brush manual process; AISE-P411; Professional use of medical devices; CS51-u2; Medical devices . Spray process; AISE-P1104	PROC 11	
21: 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	
22: 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	
23: Professional use of façade/surface cleaning products; CS47-u2; Façade/surface cleaner. Medium pressure	PROC 11	

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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 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

Assumes process temperature up to 40 °C

Specific conditions of use per contributing scenario

Contributing scenario	Specific conditions of use
Professional use of laundry products; CS1-u; Laundry detergent. Semi automatic process; AISE-P102; CS3-u; Conditioner (softener/starch). Semi automatic process; AISE-P105; CS4-u; Laundry aid (gasing). Semi automatic process; AISE-P108; CS5-u; Laundry aid (non-gasing). Semi automatic process; AISE-P111; Professional use of dishwashing products; CS10-u; Dishwash product. Semi-Automatic process; AISE-P203; CS11-u; Rinse aid. Automatic process; AISE-P204; Professional use of medical devices; CS48-u; Medical devices . Semi-automatic process; AISE-P1101 (PROC 1)	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). Respiratory protection; No. Use suitable eye protection. Personal protection; dermal; No. Body parts potentially exposed; One hand face only (240 cm2) Indoor use
Professional use of dishwashing products; CS9-u; Dishwash product. Automatic process; AISE-P202 (PROC 2)	Covers 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). 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 %

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CS6-u; Laundry aid (non-gasing). Manual process; AISE-P112 (PROC 4)	Covers use up to 0.25 h/day Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). 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 products; Semi-automated task; CS39-u; Car wash product. Semi-Automatic process; AISE-P701; CS42-u; Dewaxing product. Semi-Automatic process; AISE-P704 (PROC 4)	Covers concentrations up to 1 % Covers use up to 8 h/day Room ventilation; Basic; Up to 3 air change per hour Personal protection; dermal; No. Respiratory protection; No. Use suitable eye protection. Body parts potentially exposed; Two hands face only (480 cm2) Outdoor use
Professional use of laundry products; CS1-p; Laundry detergent. Semi automatic process; AISE-P102; CS3-p; Conditioner (softener/starch). Semi automatic process; AISE-P105; CS4-p; Laundry aid (gasing). Semi automatic process; AISE-P108; CS5-p; Laundry aid (non-gasing). Semi automatic process; AISE-P111; CS6-p; Laundry aid (non-gasing). Manual process; AISE-P112; Professional use of dishwashing products; CS10-p; Dishwash product. Semi-Automatic process; AISE-P203; CS11-p; Rinse aid. Automatic process; AISE-P204; Professional use of general surface cleaning products; CS20-p; Descaling agent. Dipping process; AISE-P309; Professional use of medical devices; CS48-p; Medical devices . Semi-automatic process; AISE-P1101; CS49-p; Medical devices . Dipping process; AISE-P1102 (PROC 8a)	Covers concentrations up to 0.1 % 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 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. Personal protection; dermal; No. Body parts potentially exposed; Two hands (960 cm2) Indoor use

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Professional use of floor care products; CS31-p; Floor cleaner. Manual process; AISE-P403; CS29-p; Floor cleaner. Semi-Automatic process; AISE-P401; CS30-p; Floor cleaner. Spray and wipe manual process; AISE-P402; CS34-p; Carpet cleaner. Manual process; AISE- P409; CS35-p; Carpet cleaner. Semi- Automatic process; AISE-P410; Professional use of general surface cleaning products; CS12-p; General purpose cleaner. Manual process; AISE-P301; CS13-p; General purpose cleaner. Spray and wipe manual process; AISE-P302; CS14-p; Kitchen cleaner. Manual process; AISE-P303; CS15-p; Kitchen cleaner. Spray and wipe manual process; AISE-P304; CS16-p; Sanitary cleaner. Manual process; AISE-P305; CS17-p; Sanitary cleaner. Spray and wipe manual process; AISE-P306; CS23-p; Glass cleaner. Manual process; AISE-P312; Professional use; Pharmaceuticals; CS45-p; Animal housing care. Manual process; AISE-P808; Professional use of medical devices; CS51-p; Medical devices . Spray process; AISE-P1104 (PROC 8a)	Covers concentrations up to 1 % Covers use up to 1 h/day Room ventilation; Basic; Up to 3 air change per hour Personal protection; dermal; No. Respiratory protection; No. Use suitable eye protection. Body parts potentially exposed; Two hands (960 cm2) Outdoor use
Professional use of vehicle cleaning products; CS39-p; Car wash product. Semi-Automatic process; AISE-P701; CS40-p; Car wash product. Spray and wipe manual process; AISE-P702; CS42-p; Dewaxing product. Semi- Automatic process; AISE-P704; Professional use of laundry products; CS2-p; Laundry detergent. Manual process; AISE-P103; Professional use of general surface cleaning products; CS19-p; Descaling agent. Spray and rinse manual process; AISE-P308; CS25-p; Surface disinfectant. Manual process; AISE-P314; CS26-p; Surface disinfectant. Spray and rinse manual process; AISE-P315; Professional use of floor care products; CS32-p; Floor stripper. Manual process; AISE-P404; CS33-p; Floor stripper. Semi-Automatic process; AISE-P405; Professional use of medical devices; CS50-p; Medical devices . Manual process; AISE-P1103 (PROC 8a)	Covers 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. Face/eye protection; No. Body parts potentially exposed; Two hands (960 cm2) Outdoor use
Professional use of vehicle cleaning products; CS41-p; Car wash product. Spray and wipe manual process; AISE- P703; CS43-p; Boat cleaner. Manual process; AISE-P705; CS44-p; Boat cleaner. Spray and wipe manual	Covers 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

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process; AISE-P706 (PROC 8a)	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)	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
Professional use of general surface cleaning products; CS21-u; Oven/Grill Cleaner. Manual process; AISE-P310 (PROC 10)	Covers concentrations up to 1 % 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 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 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)	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). Respiratory protection; No. Use suitable eye protection. Personal protection; dermal; No. 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). 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 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	Covers concentrations up to 1 % Covers use up to 8 h/day Room ventilation; Basic; Up to 3 air change per hour Personal protection; dermal; No. Respiratory protection; No. Face/eye protection; No. Body parts potentially exposed; Two hands (960 cm2) Outdoor use

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process; AISE-P302; CS14-u; Kitchen cleaner. Manual process; AISE-P303; CS15-u1; Kitchen cleaner. Spray and wipe manual process; AISE-P304; CS16-u; Sanitary cleaner. Manual process; AISE-P305; CS17-u1; Sanitary cleaner. Spray and wipe manual process; AISE-P306; CS23-u; Glass cleaner. Manual process; AISE-P312; CS24-u1; Glass cleaner. Spray and wipe manual process; AISE-P313; CS25-u; Surface disinfectant. Manual process; AISE-P314; CS26-u1; Surface disinfectant. Spray and rinse manual process; AISE-P315; CS27-u; Metal cleaning agent. Manual process; AISE-P316; 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)	
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). 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 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 Personal protection; dermal; No. Respiratory protection; No. Use suitable eye protection. Body parts potentially exposed; Two hands (960 cm2) Outdoor use
Professional use of façade/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

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	Use suitable eye protection. Body parts potentially exposed; Two hands (960 cm2) Outdoor use
Professional use of vehicle cleaning products; CS40-u; Car wash product. Spray and rinse process; AISE-P702; Professional use of laundry products; CS7-u2; Prespotter/Stain remover. Manual process; AISE-P113; Professional use of general surface cleaning products; CS13-u2; General purpose cleaner. Spray and wipe manual process; AISE-P302; CS15-u2; Kitchen cleaner. Spray and wipe manual process; AISE-P304; CS17-u2; Sanitary cleaner. Spray and wipe manual process; AISE-P306; CS24-u2; Glass cleaner. Spray and wipe manual process; AISE-P313; CS26-u2; Surface disinfectant. Spray and rinse manual process; AISE-P315; Professional use of floor care products; CS30-u2; Floor cleaner. Spray and wipe manual process; AISE-P402; CS36-u2; Carpet cleaner. Spray and brush manual process; AISE-P411; Professional use of medical devices; CS51-u2; Medical devices. Spray process; AISE-P1104 (PROC 11)	Covers concentrations up to 1 % Covers use up to 1 h/day Room ventilation; Basic; Up to 3 air change per hour Personal protection; No. Respiratory protection; No. Use suitable eye protection. Body parts potentially exposed; Assumes 2 hands and forearms (1500 cm2) Outdoor use
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)	Covers concentrations up to 1 % 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 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
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)	Covers concentrations up to 1 % Covers use up to 1 h/day Room ventilation; Basic; Up to 3 air change per hour Personal protection; dermal; No. Respiratory protection; No. Use suitable eye protection. Body parts potentially exposed; Assumes 2 hands and forearms (1500 cm2) Outdoor use
Professional use of façade/surface cleaning products; CS47-u2; Façade/surface cleaner. Medium pressure process; AISE-P902 (PROC 11)	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. 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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Professional use of façade/surface cleaning products; CS46-u; Façade/surface cleaner. High pressure process; AISE-P901 (PROC 11)	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; Assumes 2 hands and forearms (1500 cm2) Outdoor use
Professional use of maintenance products; CS37; Drain unblocker. Manual process; AISE-P606; CS38; Drain cleaner. Manual process; AISE-P607 (PROC 13)	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 face only (480 cm2) Indoor use
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)	Covers concentrations up to 1 % 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 eye protection. Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Body parts potentially exposed; Two hands face only (480 cm2) Indoor use

4.3. Exposure estimation and reference to its source

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

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

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

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

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

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

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)

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)

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

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

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

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

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)

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

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

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)

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

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 disinfectant. Manual process; AISE-P314; CS26-u1; Surface disinfectant. Spray and rinse manual process; AISE-P315; CS27-u; Metal cleaning agent. Manual process; AISE-P316; 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)

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)

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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)

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

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 disinfectant. Spray and rinse manual process; AISE-P315; Professional use of floor care products; CS30-u2; Floor cleaner. Spray and wipe manual process; AISE-P402; CS36-u2; Carpet cleaner. Spray and brush manual process; AISE-P411; Professional use of medical devices; CS51-u2; Medical devices . Spray process; AISE-P1104 (PROC 11)

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)

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)

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

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

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)

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)

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

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determine the risk characterisation ratios (RCR) under the operational conditions of the DU (eg. quantity of substance used per year and site, emission fraction to water, number of emission days).

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

5.1. Title section

ES name: GES 5; Professional end-use of polishes and wax blends

Product category: Polishes and Wax Blends (PC 31)

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

5.2. Conditions of use affecting exposure

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

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
Respiratory protection; No.
Use suitable eye protection.

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Other conditions affecting workers exposure

Indoor use

Assumes process temperature up to 40 °C

Specific conditions of use per contributing scenario

Contributing scenario	Specific conditions of use
Professional use of maintenance products; CS8-u; Leather care product. Automatic process; AISE-P605 (PROC 2)	Covers use up to 8 h/day Personal protection; dermal; No. Body parts potentially exposed; Two hands face only (480 cm2)
Professional use of maintenance products; CS8-p; Leather care product. Automatic process; AISE-P605 (PROC 8b)	Covers use up to 1 h/day Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.; For further specification, refer to section 8 of the SDS. Body parts potentially exposed; Two hands (960 cm2)
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)	Covers use up to 4 h/day Personal protection; dermal; No. Body parts potentially exposed; Two hands (960 cm2)
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)	Covers use up to 8 h/day Personal protection; dermal; No. Body parts potentially exposed; Two hands (960 cm2)
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)	Covers use up to 0.25 h/day Personal protection; dermal; No. Body parts potentially exposed; Assumes 2 hands and forearms (1500 cm2)
Professional use of maintenance products; CS3-u2; Polish / impregnating agent. Spray and wipe manual process; AISE-P408 (PROC 11)	Covers use up to 1 h/day Personal protection; dermal; No. Body parts potentially exposed; Assumes 2 hands and forearms (1500 cm2)
Professional uses; Mixing or blending in batch processes; Uses in cosmetics/personal care products,	Covers use up to 8 h/day Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.; If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the

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

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 8d)

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)

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

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)

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)

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)

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

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

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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)

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

Consumer

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

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

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

6.2. Conditions of use affecting exposure

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

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

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

Other conditions affecting environmental exposure

Municipal sewage treatment plant is assumed.

6.2.2. Control of consumer exposure: CS1; Consumer uses; Laundry and dish washing products; LAUNDRY REGULAR (powder, liquid) for consumer use; AISE-C1; LAUNDRY COMPACT (powder, liquid/gel, tablet) for consumer use; AISE-C2; FABRIC CONDITIONERS

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(liquid regular, liquid concentrate) for consumer use; AISE-C3; LAUNDRY ADDITIVES (powder bleach, liquid bleach, tablet) for consumer use; AISE-C4; HAND DISHWASHING (liquid regular, liquid concentrate) for consumer use; AISE-C5; MACHINE DISHWASHING (powder, liquid, tablet) for consumer use; AISE-C6; LAUNDRY AIDS (ironing aids-starch spray, ironing aids-other) for consumer use; AISE-C12 (PC 35)

Product (article) characteristics

Covers concentrations up to 0.15 %

Physical form of product; Liquids

Exposure route; dermal; Yes

Inhalation exposure is considered to be not relevant.

Oral exposure is considered to be not relevant.

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

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.

dermal; transfer factor; =; 1

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

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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

Covers concentrations up to 0.1 %

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 = 0.2 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	0.055 kg/day	ERC
Air	0.055 kg/day	ERC
Soil	0.011 kg/day	ERC

Protection target	Exposure estimate	RCR
Fresh water	3.6E-4 mg/L (EUSES 2.1.2)	0.343
Sediment (freshwater)	0.036 mg/kg dw (EUSES 2.1.2)	0.343
Marine water	3.58E-5 mg/L (EUSES 2.1.2)	0.341
Sediment (marine water)	3.55E-3 mg/kg dw (EUSES 2.1.2)	0.341
Sewage Treatment Plant	3.23E-3 mg/L (EUSES 2.1.2)	< 0.01
Agricultural soil	6.67E-3 mg/kg dw (EUSES 2.1.2)	0.33
Predator's prey (freshwater)	0.021 mg/kg ww (EUSES 2.1.2)	0.122
Predator's prey (marine water)	2.06E-3 mg/kg ww (EUSES 2.1.2)	0.012
Top predator's prey (marine water)	7.11E-4 mg/kg ww (EUSES 2.1.2)	< 0.01
Predator's prey (terrestrial)	1.11E-3 mg/kg ww (EUSES 2.1.2)	< 0.01
Man via environment - Inhalation (systemic effects)	7.19E-7 mg/m ³ (EUSES 2.1.2)	< 0.01
Man via environment - Inhalation (local effects)	7.19E-7 mg/m ³ (EUSES 2.1.2)	< 0.01
Man via environment - Oral	8.54E-5 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,

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liquid concentrate) for consumer use; AISE-C3; LAUNDRY ADDITIVES (powder bleach, liquid bleach, tablet) for consumer use; AISE-C4; HAND DISHWASHING (liquid regular, liquid concentrate) for consumer use; AISE-C5; MACHINE DISHWASHING (powder, liquid, tablet) for consumer use; AISE-C6; LAUNDRY AIDS (ironing aids-starch spray, ironing aids-other) for consumer use; AISE-C12 (PC 35)

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0 mg/m ³ (TRA Consumers 3.1)	< 0.01
Inhalation, local, long term	0 mg/m ³ (TRA Consumers 3.1)	< 0.01
Dermal, systemic, long term	0.214 mg/kg bw/day (TRA Consumers 3.1)	0.476
Oral, systemic, long term	0 mg/kg bw/day (TRA Consumers 3.1)	< 0.01
Combined, systemic, long term		0.476

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/m ³ (TRA Consumers 3.1)	< 0.01
Inhalation, local, long term	0 mg/m ³ (TRA Consumers 3.1)	< 0.01
Dermal, systemic, long term	0.143 mg/kg bw/day (TRA Consumers 3.1)	0.318
Oral, systemic, long term	0 mg/kg bw/day (TRA Consumers 3.1)	< 0.01
Combined, systemic, long term		0.318

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

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.013 mg/m ³ (TRA Consumers 3.1)	0.246
Inhalation, local, long term	0.013 mg/m ³ (TRA Consumers 3.1)	0.061
Dermal, systemic, long term	0.143 mg/kg bw/day (TRA Consumers 3.1)	0.318
Oral, systemic, long term	0 mg/kg bw/day (TRA Consumers 3.1)	< 0.01
Combined, systemic, long term		0.564

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).

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7. ES 7: Consumer use; Air care products

7.1. Title section

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

Product category: Air care products (PC 3)

Environment

1: GES 7; Consumer end-use of air care products ERC 8a

Consumer

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

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

7.2. Conditions of use affecting exposure

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

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 0.01 %

Physical form of product

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

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Covers concentrations up to 0.1 %

Exposure route; dermal; Yes

Inhalation exposure is considered to be not relevant.

Oral exposure is considered to be not relevant.

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

Covers use up to 1 events per day

Frequency of use over a year; Frequent

Information and behavioral advice for consumers

Covers adult use.

Other conditions affecting consumers exposure

Body parts potentially exposed; Assumes that potential dermal contact is limited to fingertips.

dermal; transfer factor; =; 1

7.3. Exposure estimation and reference to its source

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

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

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	0.043 mg/m ³ (TRA Consumers 3.1)	0.799
Inhalation, local, long term	0.043 mg/m ³ (TRA Consumers 3.1)	0.198
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		0.799

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

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

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

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

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

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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 8d

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 8d)

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 0.02 %

Physical form of product; Liquids

Exposure route; dermal; Yes

Exposure route; Inhalation; Yes

No spraying

Oral exposure is considered to be not relevant.

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

Exposure duration = 0.02 h/event

Covers use up to 1 events per day

For each use event, covers use amounts up to 20 g/event

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

Information and behavioral advice for consumers

Indoor use

Covers adult use.

Other conditions affecting consumers exposure

Assumes that potential dermal contact is limited to upper part of the body.

Inhalation; transfer factor; =; 1

dermal; transfer factor; =; 1

8.2.3. 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 0.01 %

Exposure route; dermal; Yes

Exposure route; Inhalation; Yes

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Spraying; Yes

Oral exposure is considered to be not relevant.

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

Exposure duration = 0.02 h/event

Covers use up to 1 events per day

For each use event, covers use amounts up to 20 g/event

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

Information and behavioral advice for consumers

Outdoor use

Covers adult use.

Other conditions affecting consumers exposure

Assumes that potential dermal contact is limited to upper part of the body.

Inhalation; transfer factor; =; 1

dermal; transfer factor; =; 1

8.3. Exposure estimation and reference to its source**8.3.1. Environmental release and exposure: GES 8; Consumer end-use of biocides (ERC 8d)**

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	1.98E-3 mg/m ³ (TRA Consumers 3.1)	0.036
Inhalation, local, long term	1.98E-3 mg/m ³ (TRA Consumers 3.1)	< 0.01
Dermal, systemic, long term	0.292 mg/kg bw/day (TRA Consumers 3.1)	0.648
Oral, systemic, long term	0 mg/kg bw/day (TRA Consumers 3.1)	< 0.01
Combined, systemic, long term		0.684

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	0.019 mg/m ³ (TRA Consumers 3.1)	0.35
Inhalation, local, long term	0.019 mg/m ³ (TRA Consumers 3.1)	0.087
Dermal, systemic, long term	0.146 mg/kg bw/day (TRA Consumers 3.1)	0.324
Oral, systemic, long term	0 mg/kg bw/day (TRA Consumers 3.1)	< 0.01
Combined, systemic, long term		0.674

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).

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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 8d

Consumer

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

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

9.2. Conditions of use affecting exposure

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

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

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Covers concentrations up to 1E-3 %
Exposure route; dermal; Yes
Exposure route; Inhalation; Yes
Spraying; Yes
Oral exposure is considered to be not relevant.
Amount used (or contained in articles), frequency and duration of use/exposure
Exposure duration = 1 h/event
Covers use up to 1 events per day
For each use event, covers use amounts up to 135 g/event
Frequency of use over a year; Covers use up to ; 2; weeks per year
Information and behavioral advice for consumers
Indoor use
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

9.3. 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 8d)

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-3 mg/m ³ (TRA Consumers 3.1)	0.135
Inhalation, local, long term	7.35E-3 mg/m ³ (TRA Consumers 3.1)	0.033
Dermal, systemic, long term	0.357 mg/kg bw/day (TRA Consumers 3.1)	0.794
Oral, systemic, long term	0 mg/kg bw/day (TRA Consumers 3.1)	< 0.01
Combined, systemic, long term		0.929

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	0.042 mg/m ³ (TRA Consumers 3.1)	0.776
Inhalation, local, long term	0.042 mg/m ³ (TRA Consumers 3.1)	0.192
Dermal, systemic, long term	7.15E-4 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		0.777

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,

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10. ES 10: Consumer use; Various products; Consumer (and Professional) end-use of cosmetics

10.1. Title section

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

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

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

10.2. Conditions of use affecting exposure

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

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,

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