

SAFETY DATA SHEET

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

Givaudan

MELONAL

Version 11.0

Revision Date 23 JUL 2025

Print Date 05 FEB 2026

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

1.1 Product identifier

Sales No. : 6746001
MELONAL

Substance name : 2,6-DIMETHYL-5-HEPTENAL
Identifier

CAS-No. : 106-72-9
EC-No. : 203-427-2
Formula : C9-H16-O
REACH Registration Number : 01-2120270305-62

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

Intended Use Fragrances : Perfumery or flavor 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 sensitisation, Sub-category 1B H317: May cause an allergic skin reaction.

2.2 Label elements

Administrative information:
Report Information: SDS_FR/EN/GHS_SDS_EU_CNTRY/46
Sales & Distribution Information: VE01/FR/CH11/01
Shipping Order Information: 36 302 701/32 769 739

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Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word :

Warning

Hazard statements :

H317

May cause an allergic skin reaction.

Precautionary statements :

Prevention:

P261

Avoid breathing mist or vapours.

P272

Contaminated work clothing should not be allowed out of the workplace.

P280

Wear protective gloves.

Response:

P333 + P313

If skin irritation or rash occurs: Get medical advice/ attention.

P362 + P364

Take off contaminated clothing and wash it before reuse.

Disposal:

P501

Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

- 2,6-dimethyl-5-heptenal 106-72-9

2.3 Other hazards

Hazards not Otherwise Classified. : None

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

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

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

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Chemical name	CAS-No. EC-No. REACH Registration Number	Concentration [Percent by weight]	M-Factor, SCL, ATE
2,6-dimethyl-5-heptenal	106-72-9 203-427-2 01-2120270305-62	>= 70 - < 90	Acute toxicity estimate Acute oral toxicity:> 5 000,00 mg/kg Acute dermal toxicity:> 5 000,00 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.
- In case of skin contact : If on skin, rinse well with water.
Immediately seek medical attention if chemical entered ear canal.
- 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 : May cause an allergic skin reaction.

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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 : no data available

5.3 Advice for firefighters

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

Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Standard procedure for chemical fires.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : 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.

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6.4 Reference to other sections

Not applicable

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Advice on safe handling : Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
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.
Electrical installations / working materials must comply with the technological safety standards.
- Further information on storage conditions : Store Ambient 10-30°C (50-85°F)
Dry, well ventilated, preferably full, hermetically sealed
- Advice on common storage : Protect against light. Store under nitrogen
- Storage class (TRGS 510) : 10 Combustible liquids
- Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Please refer to attached exposure scenarios.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

- Contains no substances with occupational exposure limit values.
- DNEL : End Use: Workers
Exposure routes: Inhalation

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	Potential health effects: Long-term systemic effects Value: 7,05 mg/m3
DNEL	: End Use: Workers Exposure routes: Inhalation Potential health effects: Acute systemic effects Value: 21,16 mg/m3
DNEL	: End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term local effects Value: 17,63 mg/m3
DNEL	: End Use: Workers Exposure routes: Inhalation Potential health effects: Acute local effects Value: 52,89 mg/m3
DNEL	: End Use: Workers Exposure routes: Dermal Potential health effects: Long-term systemic effects Value: 2 mg/kg bw/day
DNEL	: End Use: Workers Exposure routes: Dermal Potential health effects: Acute systemic effects Value: 170 mg/kg bw/day
DNEL	: End Use: Workers Exposure routes: Dermal Potential health effects: Long-term local effects Value: 141,7 mg/cm2
DNEL	: End Use: Workers Exposure routes: Dermal Potential health effects: Acute local effects Value: 425 mg/cm2
DNEL	: End Use: Consumer use Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 1,74 mg/m3
DNEL	: End Use: Consumer use Exposure routes: Inhalation Potential health effects: Acute systemic effects Value: 5,22 mg/m3
DNEL	: End Use: Consumer use Exposure routes: Inhalation Potential health effects: Long-term local effects

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	Value: 4,35 mg/m3
DNEL	: End Use: Consumer use Exposure routes: Inhalation Potential health effects: Acute local effects Value: 13,04 mg/m3
DNEL	: End Use: Consumer use Exposure routes: Dermal Potential health effects: Long-term systemic effects Value: 1 mg/kg bw/day
DNEL	: End Use: Consumer use Exposure routes: Dermal Potential health effects: Acute systemic effects Value: 85 mg/kg bw/day
DNEL	: End Use: Consumer use Exposure routes: Dermal Potential health effects: Long-term local effects Value: 70,83 mg/cm2
DNEL	: End Use: Consumer use Exposure routes: Dermal Potential health effects: Acute local effects Value: 212,5 mg/cm2
DNEL	: End Use: Consumer use Exposure routes: Oral Potential health effects: Long-term systemic effects Value: 1 mg/kg bw/day
PNEC	: Fresh water Value: 0,0023 mg/l
PNEC	: Fresh water sediment Value: 0,045 mg/kg dry weight (d.w.)
PNEC	: Marine water Value: 0,00023 mg/l
PNEC	: Marine sediment Value: 0,0045 mg/kg dry weight (d.w.)
PNEC	: Sewage treatment plant Value: 10 mg/l
PNEC	: Soil Value: 0,021 mg/kg dry weight (d.w.)

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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. |
| Respiratory protection | : Respiratory protection should be worn when workplace |

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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 low viscosity, clear-almost clear
Colour : colorless to Pale yellow
Taste : Floral
Odour : Aldehydic, Green, Water fruit, Floral
Odour Threshold : 1,3465 ng/l
Flash point : 62 °C Method: closed cup
Lower explosion limit : not determined
Upper explosion limit : not determined
Flammability : no data available

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Particle size	: no data available
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
Auto-ignition temperature	: 208 °C Method: A15
Decomposition temperature	: no data available
Molecular weight	: 140,20 g/mol
pH	: no data available
Melting point	: < -20 °C
Boiling point	: 181 °C at 1 013 hPa
Vapour pressure	: 1,51 hPa at 20 °C Method: OECD Test Guideline 104
Density	: 850,46 kg/m3 at 20 °C
Bulk density	: Not applicable
Water solubility	: 500 mg/l at 20 °C
Solubility/qualitative	: Very slightly soluble
Partition coefficient: n-octanol/water	: log Pow: 3,4 Method: OECD Test Guideline 117
Viscosity, kinematic	: no data available
Relative vapour density	: no data available
Surface tension	: 52,9 mN/m at 20 °C Method: OECD Test Guideline 115
Evaporation rate	: no data available
Explosive properties	: Not explosive

9.2 Other information

Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity

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

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

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10.6 Hazardous decomposition products

Hazardous decomposition products : no data available

Thermal decomposition : no data available

SECTION 11: Toxicological information

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

Acute toxicity

Not classified due to lack of data.

Product:

Acute oral toxicity : Acute toxicity estimate
Dose > 2000 mg/kg
Method: Calculation method

Components:

2,6-dimethyl-5-heptenal:

Acute oral toxicity : LD50 (Rat): > 5 000,00 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 5 000,00 mg/kg

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Product:

Species : Human
Result : No skin irritation

Remarks : May cause skin irritation and/or dermatitis.

Serious eye damage/eye irritation

Not classified due to lack of data.

Product:

Remarks : Vapours may cause irritation to the eyes, respiratory system and the skin.

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified due to lack of data.

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Product:

Remarks : Causes sensitisation.

Phototoxicity

Phototoxicity : UV-VIS absorption spectra
Result: negative

Germ cell mutagenicity

Not classified due to lack of data.

Product:

Genotoxicity in vitro : Test Type: Ames test
Method: Mutagenicity (Escherichia coli - reverse mutation assay)
Result: negative
GLP: yes

Test Type: Ames test
Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay)
Result: negative
GLP: yes

Genotoxicity in vivo : Test Type: Micronucleus test
Species: Mouse
Result: negative

Carcinogenicity

Not classified due to lack of data.

Reproductive toxicity

Not classified due to lack of data.

STOT - single exposure

Not classified due to lack of data.

STOT - repeated exposure

Not classified due to lack of data.

Repeated dose toxicity

Product:

Species : Rat
NOAEL : 300 mg/kg
Exposure time : 28d
Remarks : Repeated dose (28 days) toxicity (oral)

Aspiration toxicity

Not classified due to lack of data.

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11.2 Information on other hazards

Endocrine disrupting properties

Not classified due to lack of data.

Product:

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

Further information

Product:

Remarks : no data available

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : LC50 : 2,3 mg/l
Exposure time: 96 h
GLP: no
Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2,4 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae/aquatic plants : LC50 : 4,3 mg/l
Exposure time: 96 h
Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.

12.2 Persistence and degradability

Product:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 75 %
Exposure time: 28 d
Method: OECD Test Guideline 301 F

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GLP: yes

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

Product:

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

12.6 Endocrine disrupting properties

Product:

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

12.7 Other adverse effects

Product:

Additional ecological information : no data available

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 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.

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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, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:
Number on list 3

Number on list 75: If you intend to use this product as tattoo ink, please contact your vendor.

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

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Major Accident Hazard : Not applicable
Legislation

Water hazard class : WGK 2 obviously hazardous to water
(Germany) Classification according to AwSV, Annex 1 (5.2)

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
	Finland	+358 9 7479 0199		Australia	+61 2 8014 4558
Middle East/Africa	All Middle East/Africa	+44 1235 239671	LATAM	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	+1 866 928 0789		Brazil	+55 11 3197 5891

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	Canada				
	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.

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

ES1: Formulation of fragrance compounds (mixing of fragrance substances into fragrance compounds)

1.1. Title section

Structured Short Title	: Service life - workers; Formulation [mixing] of preparations and/or re-packaging (SU10).
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Environment		
CS1	Formulation into mixture	ERC2
Worker		
CS2	Chemical production or refinery in closed process without likelihood of PROC1 exposure or processes with equivalent containment conditions	
CS3	Manufacture or formulation in the chemical industry in closed batch	PROC3 processes with occasional controlled exposure or processes with equivalent containment condition
CS4	Mixing or blending in batch processes	PROC5
CS5	Transfer of substance or mixture (charging/discharging) at non facilities	PROC8a dedicated-

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CS6	Transfer of substance or mixture (charging/discharging) at dedicated	PROC8b facilities
CS7	Transfer of substance or mixture into small containers (dedicated filling PROC9 line, including weighing)	
CS8	Use as laboratory reagent	PROC15

1.2. Conditions of use affecting exposure

1.2.1. Control of environmental exposure: Formulation into mixture (ERC2)

Amount used, frequency and duration of use (or from service life)		
Daily amount per site	:	100 kg
Conditions and measures related to sewage treatment plant		
STP type	:	Municipal sewage treatment plant
STP sludge treatment : Can be landfilled or incinerated, when in compliance with local regulations.		
Conditions and measures related to treatment of waste (including article waste)		
Waste treatment	:	All contaminated waste water must be processed in an industrial or municipal wastewater treatment plant that
incorporates both primary and secondary treatments.		
Other conditions affecting environmental exposure		
Local freshwater dilution factor	:	10
Local marine water dilution factor	:	100

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

Product (article) characteristics		
Covers percentage substance in the product up to 25 %.		
Physical form of product	:	Liquid

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

Duration : Application duration < 60 min

Use frequency : 220 days/year

Technical and organisational conditions and measures

Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Dermal - minimum efficiency of 0 %

Inhalation - minimum efficiency of 0 %

Conditions and measures related to personal protection, hygiene and health evaluationWear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.
Use suitable eye protection.

Dermal - minimum efficiency of 90 %

Inhalation - minimum efficiency of 0 %

Other conditions affecting workers exposureBody parts exposed : One hand face only (240 cm²)

Indoor or outdoor use : Indoor use

Temperature : < 40 °C

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

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid

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

Duration : Application duration < 240 min

Use frequency : 220 days/year

Technical and organisational conditions and measures

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

Dermal - minimum efficiency of 0 %

Inhalation - minimum efficiency of 90 %

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

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Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Use suitable eye protection.

Dermal - minimum efficiency of 90 %

Inhalation - minimum efficiency of 0 %

Other conditions affecting workers exposure

Body parts exposed : One hand face only (240 cm²)

Indoor or outdoor use : Indoor use

Temperature : < 40 °C

1.2.4. Control of worker exposure: Mixing or blending in batch processes (PROC5)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid

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

Duration : Application duration < 240 min

Use frequency : 220 days/year

Technical and organisational conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour). Dermal - minimum efficiency of 0 %

Inhalation - minimum efficiency of 90 %

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

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Use suitable eye protection.

Dermal - minimum efficiency of 90 %

Inhalation - minimum efficiency of 0 %

Other conditions affecting workers exposure

Body parts exposed : Assumes 2 hands face only (480 cm²)

Indoor or outdoor use : Indoor use

Temperature : < 40 °C

1.2.5. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

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Product (article) characteristics

Covers percentage substance in the product up to 25 %.

Physical form of product : Liquid

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

Duration : Application duration < 240 min

Use frequency : 220 days/year

Technical and organisational conditions and measures

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

Dermal - minimum efficiency of 0 %

Inhalation - minimum efficiency of 90 %

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

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Use suitable eye protection.

Dermal - minimum efficiency of 90 %

Inhalation - minimum efficiency of 0 %

Other conditions affecting workers exposure

Body parts exposed : Assumes 2 hands (960 cm2)

Indoor or outdoor use : Indoor use

Temperature : < 40 °C

1.2.6. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Product (article) characteristics

Covers percentage substance in the product up to 25 %.

Physical form of product : Liquid

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

Duration : Application duration < 60 min

Use frequency : 220 days/year

Technical and organisational conditions and measures

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

Dermal - minimum efficiency of 0 %

Inhalation - minimum efficiency of 95 %

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

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.

Use suitable eye protection.

Dermal - minimum efficiency of 90 %

Inhalation - minimum efficiency of 0 %

Other conditions affecting workers exposure

Body parts exposed : Assumes 2 hands (960 cm²)

Indoor or outdoor use : Indoor use

Temperature : < 40 °C

1.2.7. Control of worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)

Product (article) characteristics

Covers percentage substance in the product up to 25 %.

Physical form of product : Liquid

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

Duration : Application duration < 60 min

Use frequency : 220 days/year

Technical and organisational conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour). Dermal - minimum efficiency of 0 %

Inhalation - minimum efficiency of 90 %

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

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.

Use suitable eye protection.

Dermal - minimum efficiency of 90 %

Inhalation - minimum efficiency of 0 %

Other conditions affecting workers exposure

Body parts exposed : Assumes 2 hands face only (480 cm²)

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Indoor or outdoor use	:	Indoor use
Temperature	:	< 40 °C

1.2.8. Control of worker exposure: Use as laboratory reagent (PROC15)

Product (article) characteristics		
Covers percentage substance in the product up to 100 %.		
Physical form of product	:	Liquid
Amount used, frequency and duration of use (or from service life)		
Duration	:	Application duration < 15 min
Use frequency	:	220 days/year
Technical and organisational conditions and measures		
Provide a basic standard of general ventilation (1 to 3 air changes per hour). Dermal - minimum efficiency of 0 % Inhalation - minimum efficiency of 90 %		
Conditions and measures related to personal protection, hygiene and health evaluation		
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Use suitable eye protection. Dermal - minimum efficiency of 90 % Inhalation - minimum efficiency of 0 %		
Other conditions affecting workers exposure		
Body parts exposed	:	One hand face only (240 cm2)
Indoor or outdoor use	:	Indoor use
Temperature	:	< 40 °C

1.3. Exposure estimation and reference to its source

1.3.1. Environmental release and exposure: Formulation into mixture (ERC2)

Release route	Release rate	Release estimation method
Water	0,2 kg/day	IFRA SpERC 2.1a.v1
Air	2,5 kg/day	IFRA SpERC 2.1a.v1
Soil	0 kg/day	IFRA SpERC 2.1a.v1

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Compartment	Exposure level	RCR
Freshwater	0,00108 mg/L (EUSES v2.1)	0,469
Freshwater sediment	0,021 mg/kg dry weight (EUSES v2.1)	0,467
Marine water	0,000108 mg/L (EUSES v2.1)	0,468
Marine sediment	0,0021 mg/kg dry weight (EUSES v2.1)	0,466
Sewage treatment plant	0,011 mg/L (EUSES v2.1)	< 0,01
Soil	0,00392 mg/kg dry weight (EUSES v2.1)	0,186

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0,001 mg/m ³ (ECETOC TRA worker v3)	< 0,01
inhalative	systemic	short-term	0,016 mg/m ³ (ECETOC TRA worker v3)	< 0,01
inhalative	local	long-term	0,001 mg/m ³ (ECETOC TRA worker v3)	< 0,01
inhalative	local	short-term	0,016 mg/m ³ (ECETOC TRA worker v3)	< 0,01
dermal	systemic	long-term	0,001 mg/kg bw/day (ECETOC TRA worker v3)	< 0,01
dermal	local	long-term	0,001 mg/cm ² (ECETOC TRA worker v3)	< 0,01
dermal	local	short-term	0,001 mg/cm ² (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		< 0,01

1.3.3. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
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inhalative	systemic	long-term	1,052 mg/m ³	0,149
			(ECETOC TRA worker v3)	
inhalative	systemic	short-term	7,011 mg/m ³ (ECETOC TRA worker v3)	0,331
inhalative	local	long-term	1,052 mg/m ³ (ECETOC TRA worker v3)	0,06
inhalative	local	short-term	7,011 mg/m ³ (ECETOC TRA worker v3)	0,133
dermal	systemic	long-term	0,069 mg/kg bw/day (ECETOC TRA worker v3)	0,035
dermal	local	long-term	0,02 mg/cm ² (ECETOC TRA worker v3)	< 0,01
dermal	local	short-term	0,02 mg/cm ² (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		0,184

1.3.4. Worker exposure: Mixing or blending in batch processes (PROC5)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	1,753 mg/m ³ (ECETOC TRA worker v3)	0,249
inhalative	systemic	short-term	11,69 mg/m ³ (ECETOC TRA worker v3)	0,552
inhalative	local	long-term	1,753 mg/m ³ (ECETOC TRA worker v3)	0,099
inhalative	local	short-term	11,69 mg/m ³ (ECETOC TRA worker v3)	0,221
dermal	systemic	long-term	0,685 mg/kg bw/day (ECETOC TRA worker v3)	0,343
dermal	local	long-term	0,1 mg/cm ² (ECETOC TRA worker v3)	< 0,01

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dermal	local	short-term	0,1 mg/cm ² (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		0,591

1.3.5. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	2,103 mg/m ³ (ECETOC TRA worker v3)	0,298
inhalative	systemic	short-term	14,02 mg/m ³ (ECETOC TRA worker v3)	0,663
inhalative	local	long-term	2,103 mg/m ³ (ECETOC TRA worker v3)	0,119
inhalative	local	short-term	14,02 mg/m ³ (ECETOC TRA worker v3)	0,265
dermal	systemic	long-term	0,411 mg/kg bw/day (ECETOC TRA worker v3)	0,206
dermal	local	long-term	0,03 mg/cm ² (ECETOC TRA worker v3)	< 0,01
dermal	local	short-term	0,03 mg/cm ² (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		0,504

1.3.6. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0,175 mg/m ³ (ECETOC TRA worker v3)	0,025
inhalative	systemic	short-term	3,506 mg/m ³ (ECETOC TRA worker v3)	0,166
inhalative	local	long-term	0,175 mg/m ³ (ECETOC TRA worker v3)	< 0,01

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inhalative	local	short-term	3,506 mg/m ³ (ECETOC TRA worker v3)	0,066
dermal	systemic	long-term	0,823 mg/kg	0,411
			bw/day (ECETOC TRA worker v3)	
dermal	local	long-term	0,06 mg/cm ² (ECETOC TRA worker v3)	< 0,01
dermal	local	short-term	0,06 mg/cm ² (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		0,436

1.3.7. Worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0,351 mg/m ³ (ECETOC TRA worker v3)	0,05
inhalative	systemic	short-term	7,011 mg/m ³ (ECETOC TRA worker v3)	0,331
inhalative	local	long-term	0,351 mg/m ³ (ECETOC TRA worker v3)	0,02
inhalative	local	short-term	7,011 mg/m ³ (ECETOC TRA worker v3)	0,133
dermal	systemic	long-term	0,412 mg/kg bw/day (ECETOC TRA worker v3)	0,206
dermal	local	long-term	0,06 mg/cm ² (ECETOC TRA worker v3)	< 0,01
dermal	local	short-term	0,06 mg/cm ² (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		0,256

1.3.8. Worker exposure: Use as laboratory reagent (PROC15)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
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inhalative	systemic	long-term	0,292 mg/m ³ (ECETOC TRA worker v3)	0,041
inhalative	systemic	short-term	11,69 mg/m ³ (ECETOC TRA worker v3)	0,552
inhalative	local	long-term	0,292 mg/m ³ (ECETOC TRA worker v3)	0,017
inhalative	local	short-term	11,69 mg/m ³ (ECETOC TRA worker v3)	0,221
dermal	systemic	long-term	0,034 mg/kg bw/day (ECETOC TRA worker v3)	0,017
dermal	local	long-term	0,01 mg/cm ² (ECETOC TRA worker v3)	< 0,01
dermal	local	short-term	0,01 mg/cm ² (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		0,058

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

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).

ES2: Formulation of fragranced end-products (mixing of fragrance compounds into fragranced end-products)

2.1. Title section

Structured Short Title : Service life - workers; Formulation [mixing] of preparations and/or re-packaging (SU10).

Environment

CS1 Formulation into mixture

ERC2

Worker

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CS2	Chemical production or refinery in closed process without likelihood of PROC1 exposure or processes with equivalent containment conditions	
CS3	Chemical production or refinery in closed continuous process with controlled exposure or processes with equivalent containment conditions	PROC2 occasional
CS4	Manufacture or formulation in the chemical industry in closed batch with occasional controlled exposure or processes with equivalent containment condition	PROC3 processes
CS5	Mixing or blending in batch processes	PROC5
CS6	Transfer of substance or mixture (charging/discharging) at non facilities	PROC8a dedicated-
CS7	Transfer of substance or mixture (charging/discharging) at dedicated	PROC8b facilities
CS8	Transfer of substance or mixture into small containers (dedicated filling weighing)	PROC9 line, including
CS9	Tabletting, compression, extrusion, pelettisation, granulation	PROC14
CS10	Use as laboratory reagent	PROC15

2.2. Conditions of use affecting exposure

2.2.1. Control of environmental exposure: Formulation into mixture (ERC2)

Amount used, frequency and duration of use (or from service life)	
Daily amount per site	: 150 kg
Conditions and measures related to sewage treatment plant	
STP type	: Municipal sewage treatment plant
STP sludge treatment : Can be landfilled or incinerated, when in compliance with local regulations.	
Conditions and measures related to treatment of waste (including article waste)	
Waste treatment	: All contaminated waste water must be processed in an industrial or municipal wastewater treatment plant that incorporates both primary and secondary treatments.
Other conditions affecting environmental exposure	
Local freshwater dilution factor	: 10
Local marine water dilution factor	: 100

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

Product (article) characteristics	
Covers percentage substance in the product up to 25 %.	
Physical form of product	: Liquid
Amount used, frequency and duration of use (or from service life)	
Duration	: Application duration < 60 min
Use frequency	: 220 days/year
Technical and organisational conditions and measures	
Provide a basic standard of general ventilation (1 to 3 air changes per hour). Dermal - minimum efficiency of 0 % Inhalation - minimum efficiency of 0 %	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Use suitable eye protection. Dermal - minimum efficiency of 90 % Inhalation - minimum efficiency of 0 %	
Other conditions affecting workers exposure	
Body parts exposed	: One hand face only (240 cm2)
Indoor or outdoor use	: Indoor use
Temperature	: < 40 °C

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

Product (article) characteristics	
Covers percentage substance in the product up to 25 %.	
Physical form of product	: Liquid
Amount used, frequency and duration of use (or from service life)	

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Duration	:	Application duration < 60 min
Use frequency	:	220 days/year
Technical and organisational conditions and measures		
Provide a basic standard of general ventilation (1 to 3 air changes per hour). Dermal - minimum efficiency of 0 % Inhalation - minimum efficiency of 90 %		
Conditions and measures related to personal protection, hygiene and health evaluation		
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Use suitable eye protection. Dermal - minimum efficiency of 90 % Inhalation - minimum efficiency of 0 %		
Other conditions affecting workers exposure		
Body parts exposed	:	Assumes 2 hands face only (480 cm2)
Indoor or outdoor use	:	Indoor use
Temperature	:	< 40 °C

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

Product (article) characteristics		
Covers percentage substance in the product up to 25 %.		
Physical form of product	:	Liquid
Amount used, frequency and duration of use (or from service life)		
Duration	:	Application duration < 240 min
Use frequency	:	220 days/year
Technical and organisational conditions and measures		
Provide a basic standard of general ventilation (1 to 3 air changes per hour). Dermal - minimum efficiency of 0 % Inhalation - minimum efficiency of 90 %		
Conditions and measures related to personal protection, hygiene and health evaluation		

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Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Use suitable eye protection.

Dermal - minimum efficiency of 90 %

Inhalation - minimum efficiency of 0 %

Other conditions affecting workers exposure

Body parts exposed : One hand face only (240 cm2)

Indoor or outdoor use : Indoor use

Temperature : < 40 °C

2.2.5. Control of worker exposure: Mixing or blending in batch processes (PROC5)

Product (article) characteristics

Covers percentage substance in the product up to 25 %.

Physical form of product : Liquid

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

Duration : Application duration < 240 min

Use frequency : 220 days/year

Technical and organisational conditions and measures

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

Dermal - minimum efficiency of 0 %

Inhalation - minimum efficiency of 90 %

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

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Use suitable eye protection.

Dermal - minimum efficiency of 90 %

Inhalation - minimum efficiency of 0 %

Other conditions affecting workers exposure

Body parts exposed : Assumes 2 hands face only (480 cm2)

Indoor or outdoor use : Indoor use

Temperature : < 40 °C

2.2.6. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

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Product (article) characteristics

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

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

Duration : Application duration < 240 min

Use frequency : 220 days/year

Technical and organisational conditions and measures

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

Dermal - minimum efficiency of 0 %

Inhalation - minimum efficiency of 90 %

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

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Use suitable eye protection.

Dermal - minimum efficiency of 90 %

Inhalation - minimum efficiency of 0 %

Other conditions affecting workers exposure

Body parts exposed : Assumes 2 hands (960 cm2)

Indoor or outdoor use : Indoor use

Temperature : < 40 °C

2.2.7. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Product (article) characteristics

Covers percentage substance in the product up to 25 %.

Physical form of product : Liquid

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

Duration : Application duration < 60 min

Use frequency : 220 days/year

Technical and organisational conditions and measures

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

Dermal - minimum efficiency of 0 %

Inhalation - minimum efficiency of 95 %

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

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Use suitable eye protection.

Dermal - minimum efficiency of 90 %

Inhalation - minimum efficiency of 0 %

Other conditions affecting workers exposure

Body parts exposed : Assumes 2 hands (960 cm2)

Indoor or outdoor use : Indoor use

Temperature : < 40 °C

2.2.8. Control of worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)

Product (article) characteristics

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

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

Duration : Application duration < 60 min

Use frequency : 220 days/year

Technical and organisational conditions and measures

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

Dermal - minimum efficiency of 0 %

Inhalation - minimum efficiency of 90 %

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

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Use suitable eye protection.

Dermal - minimum efficiency of 90 %

Inhalation - minimum efficiency of 0 %

Other conditions affecting workers exposure

Body parts exposed : Assumes 2 hands face only (480 cm2)

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Indoor or outdoor use : Indoor use

Temperature : < 40 °C

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

Product (article) characteristics

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

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

Duration : Application duration < 8 h

Use frequency : 220 days/year

Technical and organisational conditions and measures

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

Dermal - minimum efficiency of 0 %

Inhalation - minimum efficiency of 90 %

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

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Use suitable eye protection.

Dermal - minimum efficiency of 90 %

Inhalation - minimum efficiency of 0 %

Other conditions affecting workers exposure

Body parts exposed : 2 hands face only (480 cm2)

Indoor or outdoor use : Indoor use

Temperature : < 40 °C

2.2.10. Control of worker exposure: Use as laboratory reagent (PROC15)

Product (article) characteristics

Covers percentage substance in the product up to 25 %.

Physical form of product : Liquid

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

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Duration	:	Application duration < 15 min
Use frequency	:	220 days/year
Technical and organisational conditions and measures		
Provide a basic standard of general ventilation (1 to 3 air changes per hour). Dermal - minimum efficiency of 0 % Inhalation - minimum efficiency of 90 %		
Conditions and measures related to personal protection, hygiene and health evaluation		
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Use suitable eye protection. Dermal - minimum efficiency of 90 % Inhalation - minimum efficiency of 0 %		
Other conditions affecting workers exposure		
Body parts exposed	:	One hand face only (240 cm ²)
Indoor or outdoor use	:	Indoor use
Temperature	:	< 40 °C

2.3. Exposure estimation and reference to its source

2.3.1. Environmental release and exposure: Formulation into mixture (ERC2)

Release route	Release rate	Release estimation method
Water	0,015 kg/day	IFRA SpERC Group: SG-1
Air	0 kg/day	IFRA SpERC Group: SG-1
Soil	0 kg/day	IFRA SpERC Group: SG-1

Compartment	Exposure level	RCR
Freshwater	0,0000929 mg/L (EUSES v2.1)	0,04
Freshwater sediment	0,00181 mg/kg dry weight (EUSES v2.1)	0,04
Marine water	0,0000091 mg/L (EUSES v2.1)	0,039
Marine sediment	0,000177 mg/kg dry weight (EUSES v2.1)	0,039
Sewage treatment plant	0,000799 mg/L (EUSES v2.1)	< 0,01
Soil	0,000289 mg/kg dry weight (EUSES v2.1)	0,014

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0,007 mg/m ³ (ECETOC TRA worker v3)	< 0,01
inhalative	systemic	short-term	0,14 mg/m ³ (ECETOC TRA worker v3)	< 0,01
inhalative	local	long-term	0,007 mg/m ³ (ECETOC TRA worker v3)	< 0,01
inhalative	local	short-term	0,14 mg/m ³ (ECETOC TRA worker v3)	< 0,01
dermal	systemic	long-term	< 0,001 mg/kg bw/day (ECETOC TRA worker v3)	< 0,01
dermal	local	long-term	< 0,001 mg/cm ² (ECETOC TRA worker v3)	< 0,01
dermal	local	short-term	< 0,001 mg/cm ² (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		< 0,01

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0,351 mg/m ³ (ECETOC TRA worker v3)	0,05
inhalative	systemic	short-term	7,011 mg/m ³ (ECETOC TRA worker v3)	0,331
inhalative	local	long-term	0,351 mg/m ³ (ECETOC TRA worker v3)	0,02
inhalative	local	short-term	7,011 mg/m ³ (ECETOC TRA worker v3)	0,133

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dermal	systemic	long-term	0,016 mg/kg bw/day (ECETOC TRA worker v3)	< 0,01
dermal	local	long-term	0,002 mg/cm ² (ECETOC TRA worker v3)	< 0,01
dermal	local	short-term	0,002 mg/cm ² (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		0,058

2.3.4. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	2,103 mg/m ³ (ECETOC TRA worker v3)	0,298
inhalative	systemic	short-term	14,02 mg/m ³ (ECETOC TRA worker v3)	0,663
inhalative	local	long-term	2,103 mg/m ³ (ECETOC TRA worker v3)	0,119
inhalative	local	short-term	14,02 mg/m ³ (ECETOC TRA worker v3)	0,265
dermal	systemic	long-term	0,025 mg/kg bw/day (ECETOC TRA worker v3)	0,012
dermal	local	long-term	0,007 mg/cm ² (ECETOC TRA worker v3)	< 0,01
dermal	local	short-term	0,007 mg/cm ² (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		0,311

2.3.5. Worker exposure: Mixing or blending in batch processes (PROC5)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	3,155 mg/m ³ (ECETOC TRA worker v3)	0,448

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inhalative	systemic	short-term	21,03 mg/m ³ (ECETOC TRA worker v3)	0,994
inhalative	local	long-term	3,155 mg/m ³ (ECETOC TRA worker v3)	0,179
inhalative	local	short-term	21,03 mg/m ³ (ECETOC TRA worker v3)	0,398
dermal	systemic	long-term	0,494 mg/kg bw/day (ECETOC TRA worker v3)	0,247
dermal	local	long-term	0,072 mg/cm ² (ECETOC TRA worker v3)	< 0,01
dermal	local	short-term	0,072 mg/cm ² (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		0,694

2.3.6. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	1,753 mg/m ³ (ECETOC TRA worker v3)	0,249
inhalative	systemic	short-term	11,69 mg/m ³ (ECETOC TRA worker v3)	0,552
inhalative	local	long-term	1,753 mg/m ³ (ECETOC TRA worker v3)	0,099
inhalative	local	short-term	11,69 mg/m ³ (ECETOC TRA worker v3)	0,221
dermal	systemic	long-term	0,082 mg/kg bw/day (ECETOC TRA worker v3)	0,041
dermal	local	long-term	0,006 mg/cm ² (ECETOC TRA worker v3)	< 0,01
dermal	local	short-term	0,006 mg/cm ² (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		0,29

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2.3.7. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0,876 mg/m ³ (ECETOC TRA worker v3)	0,124
inhalative	systemic	short-term	17,53 mg/m ³ (ECETOC TRA worker v3)	0,828
inhalative	local	long-term	0,876 mg/m ³ (ECETOC TRA worker v3)	0,05
inhalative	local	short-term	17,53 mg/m ³ (ECETOC TRA worker v3)	0,331
dermal	systemic	long-term	0,165 mg/kg	0,082
			bw/day (ECETOC TRA worker v3)	
dermal	local	long-term	0,012 mg/cm ² (ECETOC TRA worker v3)	< 0,01
dermal	local	short-term	0,012 mg/cm ² (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		0,207

2.3.8. Worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0,584 mg/m ³ (ECETOC TRA worker v3)	0,083
inhalative	systemic	short-term	11,69 mg/m ³ (ECETOC TRA worker v3)	0,552
inhalative	local	long-term	0,584 mg/m ³ (ECETOC TRA worker v3)	0,033
inhalative	local	short-term	11,69 mg/m ³ (ECETOC TRA worker v3)	0,221

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dermal	systemic	long-term	0,014 mg/kg bw/day (ECETOC TRA worker v3)	< 0,01
dermal	local	long-term	0,002 mg/cm ² (ECETOC TRA worker v3)	< 0,01
dermal	local	short-term	0,002 mg/cm ² (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		0,09

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	2,921 mg/m ³ (ECETOC TRA worker v3)	0,414
inhalative	systemic	short-term	11,69 mg/m ³ (ECETOC TRA worker v3)	0,552
inhalative	local	long-term	2,921 mg/m ³ (ECETOC TRA worker v3)	0,166
inhalative	local	short-term	11,69 mg/m ³ (ECETOC TRA worker v3)	0,221
dermal	systemic	long-term	0,034 mg/kg bw/day (ECETOC TRA worker v3)	0,017
dermal	local	long-term	0,005 mg/cm ² (ECETOC TRA worker v3)	< 0,01
dermal	local	short-term	0,005 mg/cm ² (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		0,431

2.3.10. Worker exposure: Use as laboratory reagent (PROC15)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0,351 mg/m ³ (ECETOC TRA worker v3)	0,05

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inhalative	systemic	short-term	14,02 mg/m ³ (ECETOC TRA worker v3)	0,663
inhalative	local	long-term	0,351 mg/m ³ (ECETOC TRA worker v3)	0,02
inhalative	local	short-term	14,02 mg/m ³ (ECETOC TRA worker v3)	0,265
dermal	systemic	long-term	0,002 mg/kg bw/day (ECETOC TRA worker v3)	< 0,01
dermal	local	long-term	0,001 mg/cm ² (ECETOC TRA worker v3)	< 0,01
dermal	local	short-term	0,001 mg/cm ² (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		0,051

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

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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ES3: Industrial end-use of washing and cleaning products

3.1. Title section

Structured Short Title	: Service life - workers; Industrial uses (SU3).
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Environment

CS1 Use of non-reactive processing aid at industrial site (no inclusion into or ERC4 onto article)

Worker

CS2	Chemical production or refinery in closed process without likelihood of PROC1 exposure or processes with equivalent containment conditions
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CS3	Chemical production or refinery in closed continuous process with PROC2 occasional controlled exposure or processes with equivalent containment conditions
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CS4	Chemical production where opportunity for exposure arises	PROC4
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CS5	Industrial spraying	PROC7
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CS6	Transfer of substance or mixture (charging/discharging) at dedicated PROC8b facilities
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CS7	Roller application or brushing	PROC10
-----	--------------------------------	--------

CS8	Treatment of articles by dipping and pouring	PROC13
-----	--	--------

Consumer

CS9	Washing and cleaning products (including solvent based products)	PC35
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3.2. Conditions of use affecting exposure

3.2.1. Control of environmental exposure: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)

In accordance with IFRA REACH Exposure Scenarios (ES) for Fragrance Substances, ERC4 can be considered under ERC8. The total tonnage of all end-uses is covered under ES6.

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

Product (article) characteristics

Covers percentage substance in the product up to 1 %.

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Physical form of product	: Liquid
Amount used, frequency and duration of use (or from service life)	
Duration	: Application duration < 8 h
Use frequency	: 220 days/year
Technical and organisational conditions and measures	
Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Dermal - minimum efficiency of 0 % Inhalation - minimum efficiency of 0 %	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Use suitable eye protection. Dermal - minimum efficiency of 90 % Inhalation - minimum efficiency of 0 %	
Other conditions affecting workers exposure	
Body parts exposed	: Assumes that potential dermal contact is limited to hands.
Indoor or outdoor use	: Indoor use
Temperature	: < 40 °C

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

Product (article) characteristics	
Covers percentage substance in the product up to 1 %.	
Physical form of product	: Liquid
Amount used, frequency and duration of use (or from service life)	
Duration	: Application duration < 8 h
Use frequency	: 220 days/year
Technical and organisational conditions and measures	
Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Dermal - minimum efficiency of 0 % Inhalation - minimum efficiency of 0 %	

Administrative information:

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

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Use suitable eye protection.

Dermal - minimum efficiency of 90 %

Inhalation - minimum efficiency of 0 %

Other conditions affecting workers exposure

Body parts exposed : Assumes that potential dermal contact is limited to hands.

Indoor or outdoor use : Indoor use

Temperature : < 40 °C

3.2.4. Control of worker exposure: Chemical production where opportunity for exposure arises (PROC4)

Product (article) characteristics

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

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

Duration : Application duration < 8 h

Use frequency : 220 days/year

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

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Use suitable eye protection.

Dermal - minimum efficiency of 90 %

Inhalation - minimum efficiency of 0 %

Other conditions affecting workers exposure

Body parts exposed : Assumes 2 hands face only (480 cm2)

Indoor or outdoor use : Outdoor use

Temperature : < 40 °C

3.2.5. Control of worker exposure: Industrial spraying (PROC7)

Product (article) characteristics

Covers percentage substance in the product up to 1 %.

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Physical form of product	: Liquid
Amount used, frequency and duration of use (or from service life)	
Duration	: Application duration < 8 h
Use frequency	: 220 days/year
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.	
Use suitable eye protection.	
Wear a respirator conforming to EN140.	
Dermal - minimum efficiency of 90 %	
Inhalation - minimum efficiency of 90 %	
Other conditions affecting workers exposure	
Body parts exposed	: Assumes 2 hands and forearms (1500 cm2)
Indoor or outdoor use	: Outdoor use
Temperature	: < 40 °C

3.2.6. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Product (article) characteristics	
Covers percentage substance in the product up to 1 %.	
Physical form of product	: Liquid
Amount used, frequency and duration of use (or from service life)	
Duration	: Application duration < 60 min
Use frequency	: 220 days/year
Technical and organisational conditions and measures	
Provide a basic standard of general ventilation (1 to 3 air changes per hour).	
Dermal - minimum efficiency of 0 %	
Inhalation - minimum efficiency of 0 %	
Conditions and measures related to personal protection, hygiene and health evaluation	

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Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Use suitable eye protection.
Dermal - minimum efficiency of 90 %
Inhalation - minimum efficiency of 0 %

Other conditions affecting workers exposure

Body parts exposed : Assumes 2 hands (960 cm2)

Indoor or outdoor use : Indoor use

Temperature : < 40 °C

3.2.7. Control of worker exposure: Roller application or brushing (PROC10)

Product (article) characteristics

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

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

Duration : Application duration < 8 h

Use frequency : 220 days/year

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

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Use suitable eye protection.
Dermal - minimum efficiency of 90 %
Inhalation - minimum efficiency of 0 %

Other conditions affecting workers exposure

Body parts exposed : Assumes 2 hands (960 cm2)

Indoor or outdoor use : Outdoor use

Temperature : < 40 °C

3.2.8. Control of worker exposure: Treatment of articles by dipping and pouring (PROC13)

Product (article) characteristics

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

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

Duration : Application duration < 8 h

Use frequency : 220 days/year

Technical and organisational conditions and measures

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

Dermal - minimum efficiency of 0 %

Inhalation - minimum efficiency of 90 %

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

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.

Use suitable eye protection.

Dermal - minimum efficiency of 90 %

Inhalation - minimum efficiency of 0 %

Other conditions affecting workers exposure

Body parts exposed : 2 hands face only (480 cm2)

Indoor or outdoor use : Indoor use

Temperature : < 40 °C

3.3. Exposure estimation and reference to its source

3.3.1. Environmental release and exposure: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)

Additional information on exposure estimation

In accordance with IFRA REACH Exposure Scenarios (ES) for Fragrance Substances, ERC4 can be considered under ERC8. The total tonnage of all end-uses is covered under ES6.

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0,004 mg/m ³ (ECETOC TRA worker v3)	< 0,01
inhalative	systemic	short-term	0,016 mg/m ³ (ECETOC TRA worker v3)	< 0,01

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inhalative	local	long-term	0,004 mg/m ³ (ECETOC TRA worker v3)	< 0,01
inhalative	local	short-term	0,016 mg/m ³ (ECETOC TRA worker v3)	< 0,01
dermal	systemic	long-term	< 0,001 mg/kg bw/day (ECETOC TRA worker v3)	< 0,01
dermal	local	long-term	< 0,001 mg/cm ² (ECETOC TRA worker v3)	< 0,01
dermal	local	short-term	< 0,001 mg/cm ² (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		< 0,01

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0,409 mg/m ³ (ECETOC TRA worker v3)	0,058
inhalative	systemic	short-term	1,636 mg/m ³ (ECETOC TRA worker v3)	0,077
inhalative	local	long-term	0,409 mg/m ³ (ECETOC TRA worker v3)	0,023
inhalative	local	short-term	1,636 mg/m ³ (ECETOC TRA worker v3)	0,031
dermal	systemic	long-term	0,014 mg/kg bw/day (ECETOC TRA worker v3)	< 0,01
dermal	local	long-term	0,002 mg/cm ² (ECETOC TRA worker v3)	< 0,01
dermal	local	short-term	0,002 mg/cm ² (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		0,065

3.3.4. Worker exposure: Chemical production where opportunity for exposure arises (PROC4)

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Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	2,045 mg/m ³ (ECETOC TRA worker v3)	0,29
inhalative	systemic	short-term	8,18 mg/m ³ (ECETOC TRA worker v3)	0,387
inhalative	local	long-term	2,045 mg/m ³ (ECETOC TRA worker v3)	0,116
inhalative	local	short-term	8,18 mg/m ³ (ECETOC TRA worker v3)	0,155
dermal	systemic	long-term	0,069 mg/kg bw/day (ECETOC TRA worker v3)	0,034
dermal	local	long-term	0,01 mg/cm ² (ECETOC TRA worker v3)	< 0,01
dermal	local	short-term	0,01 mg/cm ² (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		0,324

3.3.5. Worker exposure: Industrial spraying (PROC7)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	4,09 mg/m ³ (ECETOC TRA worker v3)	0,58
inhalative	systemic	short-term	16,36 mg/m ³ (ECETOC TRA worker v3)	0,773
inhalative	local	long-term	4,09 mg/m ³ (ECETOC TRA worker v3)	0,232
inhalative	local	short-term	16,36 mg/m ³ (ECETOC TRA worker v3)	0,309
dermal	systemic	long-term	0,214 mg/kg bw/day (ECETOC TRA worker v3)	0,107

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dermal	local	long-term	0,01 mg/cm ² (ECETOC TRA worker v3)	< 0,01
dermal	local	short-term	0,01 mg/cm ² (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		0,687

3.3.6. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0,584 mg/m ³ (ECETOC TRA worker v3)	0,083
inhalative	systemic	short-term	11,69 mg/m ³ (ECETOC TRA worker v3)	0,552
inhalative	local	long-term	0,584 mg/m ³ (ECETOC TRA worker v3)	0,033
inhalative	local	short-term	11,69 mg/m ³ (ECETOC TRA worker v3)	0,221
dermal	systemic	long-term	0,137 mg/kg bw/day (ECETOC TRA worker v3)	0,069
dermal	local	long-term	0,01 mg/cm ² (ECETOC TRA worker v3)	< 0,01
dermal	local	short-term	0,01 mg/cm ² (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		0,151

3.3.7. Worker exposure: Roller application or brushing (PROC10)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	4,09 mg/m ³ (ECETOC TRA worker v3)	0,58
inhalative	systemic	short-term	16,36 mg/m ³ (ECETOC TRA worker v3)	0,773

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inhalative	local	long-term	4,09 mg/m ³ (ECETOC TRA worker v3)	0,232
inhalative	local	short-term	16,36 mg/m ³ (ECETOC TRA worker v3)	0,309
dermal	systemic	long-term	0,137 mg/kg bw/day (ECETOC TRA worker v3)	0,069
dermal	local	long-term	0,01 mg/cm ² (ECETOC TRA worker v3)	< 0,01
dermal	local	short-term	0,01 mg/cm ² (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		0,649

3.3.8. Worker exposure: Treatment of articles by dipping and pouring (PROC13)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0,584 mg/m ³ (ECETOC TRA worker v3)	0,083
inhalative	systemic	short-term	2,337 mg/m ³ (ECETOC TRA worker v3)	0,11
inhalative	local	long-term	0,584 mg/m ³ (ECETOC TRA worker v3)	0,033
inhalative	local	short-term	2,337 mg/m ³ (ECETOC TRA worker v3)	0,044
dermal	systemic	long-term	0,137 mg/kg bw/day (ECETOC TRA worker v3)	0,069
dermal	local	long-term	0,02 mg/cm ² (ECETOC TRA worker v3)	< 0,01
dermal	local	short-term	0,02 mg/cm ² (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		0,151

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

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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ES4: Professional end-use of washing and cleaning products

4.1. Title section

Structured Short Title	: Widespread use by professional workers; Professional uses (SU22).
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Environment

CS1 Widespread use of non-reactive processing aid (no inclusion into or ERC8a onto article, indoor)

Worker

CS2	Chemical production or refinery in closed process without likelihood of PROC1 exposure or processes with equivalent containment conditions
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CS3	Chemical production or refinery in closed continuous process with PROC2 occasional controlled exposure or processes with equivalent containment conditions
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CS4	Chemical production where opportunity for exposure arises	PROC4
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CS5	Transfer of substance or mixture (charging/discharging) at non facilities	PROC8a dedicated-
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CS6	Transfer of substance or mixture (charging/discharging) at dedicated	PROC8b facilities
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CS7	Roller application or brushing	PROC10
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CS8	Non-industrial spraying	PROC11
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CS9	Treatment of articles by dipping and pouring	PROC13
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Consumer

CS10	Washing and cleaning products (including solvent based products)	PC35
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4.2. Conditions of use affecting exposure

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

The total tonnage of all end-uses is considered under ES6.

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

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Product (article) characteristics

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

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

Duration : Application duration < 8 h

Use frequency : 220 days/year

Technical and organisational conditions and measures

Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Dermal - minimum efficiency of 0 %
Inhalation - minimum efficiency of 0 %

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

Use suitable eye protection.
Dermal - minimum efficiency of 0 %
Inhalation - minimum efficiency of 0 %

Other conditions affecting workers exposure

Body parts exposed : One hand face only (240 cm²)

Indoor or outdoor use : Indoor use

Temperature : < 40 °C

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

Product (article) characteristics

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

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

Duration : Application duration < 8 h

Use frequency : 220 days/year

Technical and organisational conditions and measures

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Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Dermal - minimum efficiency of 0 %
Inhalation - minimum efficiency of 0 %

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

Use suitable eye protection.
Dermal - minimum efficiency of 0 %
Inhalation - minimum efficiency of 0 %

Other conditions affecting workers exposure

Body parts exposed : Assumes 2 hands face only (480 cm2)

Indoor or outdoor use : Indoor use

Temperature : < 40 °C

4.2.4. Control of worker exposure: Chemical production where opportunity for exposure arises (PROC4)

Product (article) characteristics

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

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

Duration : Application duration < 8 h

Use frequency : 220 days/year

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

Use suitable eye protection.
Dermal - minimum efficiency of 0 %
Inhalation - minimum efficiency of 0 %

Other conditions affecting workers exposure

Body parts exposed : Assumes 2 hands face only (480 cm2)

Indoor or outdoor use : Outdoor use

Temperature : < 40 °C

4.2.5. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

Product (article) characteristics

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Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

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

Duration : Application duration < 15 min

Use frequency : 220 days/year

Technical and organisational conditions and measures

Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Dermal - minimum efficiency of 0 %
Inhalation - minimum efficiency of 0 %

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

Use suitable eye protection.
Dermal - minimum efficiency of 0 %
Inhalation - minimum efficiency of 0 %

Other conditions affecting workers exposure

Body parts exposed : Assumes 2 hands (960 cm²)

Indoor or outdoor use : Indoor use

Temperature : < 40 °C

4.2.6. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Product (article) characteristics

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

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

Duration : Application duration < 15 min

Use frequency : 220 days/year

Technical and organisational conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).
Dermal - minimum efficiency of 0 %
Inhalation - minimum efficiency of 0 %

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

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.
Use suitable eye protection.
Dermal - minimum efficiency of 90 %
Inhalation - minimum efficiency of 0 %

Other conditions affecting workers exposure

Body parts exposed : Assumes 2 hands (960 cm2)
Indoor or outdoor use : Indoor use
Temperature : < 40 °C

4.2.7. Control of worker exposure: Roller application or brushing (PROC10)

Product (article) characteristics

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

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

Duration : Application duration < 8 h
Use frequency : 220 days/year

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

Use suitable eye protection.
Dermal - minimum efficiency of 0 %
Inhalation - minimum efficiency of 0 %

Other conditions affecting workers exposure

Body parts exposed : Assumes 2 hands (960 cm2)
Indoor or outdoor use : Outdoor use
Temperature : < 40 °C

4.2.8. Control of worker exposure: Non-industrial spraying (PROC11)

Product (article) characteristics

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

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

Duration : Application duration < 8 h

Use frequency : 220 days/year

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

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Use suitable eye protection.

Wear a respirator conforming to EN140. Dermal - minimum efficiency of 90 %

Inhalation - minimum efficiency of 90 %

Other conditions affecting workers exposure

Body parts exposed : Assumes 2 hands and forearms (1500 cm²)

Indoor or outdoor use : Outdoor use

Temperature : < 40 °C

4.2.9. Control of worker exposure: Treatment of articles by dipping and pouring (PROC13)

Product (article) characteristics

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

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

Duration : Application duration < 60 min

Use frequency : 220 days/year

Technical and organisational conditions and measures

Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Dermal - minimum efficiency of 0 %

Inhalation - minimum efficiency of 0 %

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

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Use suitable eye protection.

Dermal - minimum efficiency of 90 %

Inhalation - minimum efficiency of 0 %

Other conditions affecting workers exposure

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Body parts exposed	:	2 hands face only (480 cm ²)
Indoor or outdoor use	:	Indoor use
Temperature	:	< 40 °C

4.3. Exposure estimation and reference to its source

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

Additional information on exposure estimation

The total tonnage of all end-uses is considered under ES6.

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0,004 mg/m ³	< 0,01
			(ECETOC TRA worker v3)	
inhalative	systemic	short-term	0,016 mg/m ³ (ECETOC TRA worker v3)	< 0,01
inhalative	local	long-term	0,004 mg/m ³ (ECETOC TRA worker v3)	< 0,01
inhalative	local	short-term	0,016 mg/m ³ (ECETOC TRA worker v3)	< 0,01
dermal	systemic	long-term	0,003 mg/kg bw/day (ECETOC TRA worker v3)	< 0,01
dermal	local	long-term	< 0,001 mg/cm ² (ECETOC TRA worker v3)	< 0,01
dermal	local	short-term	< 0,001 mg/cm ² (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		< 0,01

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

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Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	2,045 mg/m ³ (ECETOC TRA worker v3)	0,29
inhalative	systemic	short-term	8,18 mg/m ³ (ECETOC TRA worker v3)	0,387
inhalative	local	long-term	2,045 mg/m ³ (ECETOC TRA worker v3)	0,116
inhalative	local	short-term	8,18 mg/m ³ (ECETOC TRA worker v3)	0,155
dermal	systemic	long-term	0,137 mg/kg bw/day (ECETOC TRA worker v3)	0,069
dermal	local	long-term	0,02 mg/cm ² (ECETOC TRA worker v3)	< 0,01
dermal	local	short-term	0,02 mg/cm ² (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		0,359

4.3.4. Worker exposure: Chemical production where opportunity for exposure arises (PROC4)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	2,045 mg/m ³ (ECETOC TRA worker v3)	0,29
inhalative	systemic	short-term	8,18 mg/m ³ (ECETOC TRA worker v3)	0,387
inhalative	local	long-term	2,045 mg/m ³ (ECETOC TRA worker v3)	0,116
inhalative	local	short-term	8,18 mg/m ³ (ECETOC TRA worker v3)	0,155
dermal	systemic	long-term	0,686 mg/kg bw/day (ECETOC TRA worker v3)	0,343

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dermal	local	long-term	0,1 mg/cm ² (ECETOC TRA worker v3)	< 0,01
dermal	local	short-term	0,1 mg/cm ² (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		0,633

4.3.5. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0,409 mg/m ³ (ECETOC TRA worker v3)	0,058
inhalative	systemic	short-term	16,36 mg/m ³ (ECETOC TRA worker v3)	0,773
inhalative	local	long-term	0,409 mg/m ³ (ECETOC TRA worker v3)	0,023
inhalative	local	short-term	16,36 mg/m ³ (ECETOC TRA worker v3)	0,309
dermal	systemic	long-term	0,274 mg/kg bw/day (ECETOC TRA worker v3)	0,137
dermal	local	long-term	0,02 mg/cm ² (ECETOC TRA worker v3)	< 0,01
dermal	local	short-term	0,02 mg/cm ² (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		0,195

4.3.6. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0,409 mg/m ³ (ECETOC TRA worker v3)	0,058
inhalative	systemic	short-term	16,36 mg/m ³ (ECETOC TRA worker v3)	0,773

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inhalative	local	long-term	0,409 mg/m ³ (ECETOC TRA worker v3)	0,023
inhalative	local	short-term	16,36 mg/m ³ (ECETOC TRA worker v3)	0,309
dermal	systemic	long-term	0,137 mg/kg bw/day (ECETOC TRA worker v3)	0,069
dermal	local	long-term	0,01 mg/cm ² (ECETOC TRA worker v3)	< 0,01
dermal	local	short-term	0,01 mg/cm ² (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		0,127

4.3.7. Worker exposure: Roller application or brushing (PROC10)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	1,022 mg/m ³ (ECETOC TRA worker v3)	0,145
inhalative	systemic	short-term	4,09 mg/m ³ (ECETOC TRA worker v3)	0,193
inhalative	local	long-term	1,022 mg/m ³ (ECETOC TRA worker v3)	0,058
inhalative	local	short-term	4,09 mg/m ³ (ECETOC TRA worker v3)	0,077
dermal	systemic	long-term	0,549 mg/kg bw/day (ECETOC TRA worker v3)	0,274
dermal	local	long-term	0,04 mg/cm ² (ECETOC TRA worker v3)	< 0,01
dermal	local	short-term	0,04 mg/cm ² (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		0,419

4.3.8. Worker exposure: Non-industrial spraying (PROC11)**Administrative information:**

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Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	1,227 mg/m ³ (ECETOC TRA worker v3)	0,174
inhalative	systemic	short-term	8,18 mg/m ³ (ECETOC TRA worker v3)	0,387
inhalative	local	long-term	1,227 mg/m ³ (ECETOC TRA worker v3)	0,07
inhalative	local	short-term	8,18 mg/m ³ (ECETOC TRA worker v3)	0,155
dermal	systemic	long-term	1,071 mg/kg bw/day (ECETOC TRA worker v3)	0,536
dermal	local	long-term	0,05 mg/cm ² (ECETOC TRA worker v3)	< 0,01
dermal	local	short-term	0,05 mg/cm ² (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		0,71

4.3.9. Worker exposure: Treatment of articles by dipping and pouring (PROC13)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0,818 mg/m ³ (ECETOC TRA worker v3)	0,116
inhalative	systemic	short-term	16,36 mg/m ³ (ECETOC TRA worker v3)	0,773
inhalative	local	long-term	0,818 mg/m ³ (ECETOC TRA worker v3)	0,046
inhalative	local	short-term	16,36 mg/m ³ (ECETOC TRA worker v3)	0,309
dermal	systemic	long-term	0,137 mg/kg bw/day (ECETOC TRA worker v3)	0,069

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dermal	local	long-term	0,02 mg/cm ² (ECETOC TRA worker v3)	< 0,01
dermal	local	short-term	0,02 mg/cm ² (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		0,185

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

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).

ES5: Professional end-use of polishes and wax blends

5.1. Title section

Structured Short Title : Widespread use by professional workers; Professional uses (SU22).

Environment		
CS1	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)	ERC8a
Worker		
CS2	Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions	PROC2
CS3	Transfer of substance or mixture (charging/discharging) at dedicated facilities	PROC8b
CS4	Roller application or brushing	PROC10
CS5	Non-industrial spraying	PROC11
Consumer		
CS6	Polishes and wax blends	PC31

Administrative information:

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5.2. Conditions of use affecting exposure

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

The total tonnage of all end-uses is considered under ES6.

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

Product (article) characteristics

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

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

Duration : Application duration < 8 h

Use frequency : 220 days/year

Technical and organisational conditions and measures

Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Dermal - minimum efficiency of 0 %

Inhalation - minimum efficiency of 0 %

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

Use suitable eye protection.

Dermal - minimum efficiency of 0 %

Inhalation - minimum efficiency of 0 %

Other conditions affecting workers exposure

Body parts exposed : Assumes 2 hands face only (480 cm²)

Indoor or outdoor use : Indoor use

Temperature : < 40 °C

5.2.3. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Product (article) characteristics

Covers percentage substance in the product up to 1 %.

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Physical form of product	: Liquid
Amount used, frequency and duration of use (or from service life)	
Duration	: Application duration < 60 min
Use frequency	: 220 days/year
Technical and organisational conditions and measures	
Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Dermal - minimum efficiency of 0 % Inhalation - minimum efficiency of 0 %	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Use suitable eye protection. Dermal - minimum efficiency of 90 % Inhalation - minimum efficiency of 0 %	
Other conditions affecting workers exposure	
Body parts exposed	: Assumes 2 hands (960 cm2)
Indoor or outdoor use	: Indoor use
Temperature	: < 40 °C

5.2.4. Control of worker exposure: Roller application or brushing (PROC10)

Product (article) characteristics	
Covers percentage substance in the product up to 1 %.	
Physical form of product	: Liquid
Amount used, frequency and duration of use (or from service life)	
Duration	: Application duration < 8 h
Use frequency	: 220 days/year
Technical and organisational conditions and measures	
Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Dermal - minimum efficiency of 0 % Inhalation - minimum efficiency of 0 %	
Conditions and measures related to personal protection, hygiene and health evaluation	

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Use suitable eye protection.
Dermal - minimum efficiency of 0 %
Inhalation - minimum efficiency of 0 %

Other conditions affecting workers exposure

Body parts exposed	:	Assumes 2 hands (960 cm2)
Indoor or outdoor use	:	Indoor use
Temperature	:	< 40 °C

5.2.5. Control of worker exposure: Non-industrial spraying (PROC11)

Product (article) characteristics

Covers percentage substance in the product up to 1 %.

Physical form of product	:	Liquid
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Amount used, frequency and duration of use (or from service life)

Duration	:	Application duration < 60 min
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Use frequency	:	220 days/year
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Technical and organisational conditions and measures

Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Dermal - minimum efficiency of 0 %
Inhalation - minimum efficiency of 0 %

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

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Use suitable eye protection.
Wear a respirator conforming to EN140. Dermal - minimum efficiency of 90 %
Inhalation - minimum efficiency of 90 %

Other conditions affecting workers exposure

Body parts exposed	:	Assumes 2 hands and forearms (1500 cm2)
Indoor or outdoor use	:	Indoor use
Temperature	:	< 40 °C

5.3. Exposure estimation and reference to its source

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

Additional information on exposure estimation

The total tonnage of all end-uses is considered under ES6.

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	2,045 mg/m ³ (ECETOC TRA worker v3)	0,29
inhalative	systemic	short-term	8,18 mg/m ³ (ECETOC TRA worker v3)	0,387
inhalative	local	long-term	2,045 mg/m ³ (ECETOC TRA worker v3)	0,116
inhalative	local	short-term	8,18 mg/m ³ (ECETOC TRA worker v3)	0,155
dermal	systemic	long-term	0,137 mg/kg bw/day (ECETOC TRA worker v3)	0,069
dermal	local	long-term	0,02 mg/cm ² (ECETOC TRA worker v3)	< 0,01
dermal	local	short-term	0,02 mg/cm ² (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		0,359

5.3.3. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0,818 mg/m ³ (ECETOC TRA worker v3)	0,116
inhalative	systemic	short-term	16,36 mg/m ³ (ECETOC TRA worker v3)	0,773

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inhalative	local	long-term	0,818 mg/kg bw/day (ECETOC TRA worker v3)	0,046
inhalative	local	short-term	16,36 mg/kg bw/day (ECETOC TRA worker v3)	0,309
dermal	systemic	long-term	0,137 mg/kg bw/day (ECETOC TRA worker v3)	0,069
dermal	local	long-term	0,01 mg/cm2 (ECETOC TRA worker v3)	< 0,01
dermal	local	short-term	0,01 mg/cm2 (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		0,185

5.3.4. Worker exposure: Roller application or brushing (PROC10)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	1,022 mg/m ³ (ECETOC TRA worker v3)	0,145
inhalative	systemic	short-term	4,09 mg/m ³ (ECETOC TRA worker v3)	0,193
inhalative	local	long-term	1,022 mg/kg bw/day (ECETOC TRA worker v3)	0,058
inhalative	local	short-term	4,09 mg/kg bw/day (ECETOC TRA worker v3)	0,077
dermal	systemic	long-term	0,274 mg/kg bw/day (ECETOC TRA worker v3)	0,137
dermal	local	long-term	0,02 mg/cm2 (ECETOC TRA worker v3)	< 0,01
dermal	local	short-term	0,02 mg/cm2 (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		0,282

5.3.5. Worker exposure: Non-industrial spraying (PROC11)**Administrative information:**

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Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0,818 mg/m ³ (ECETOC TRA worker v3)	0,116
inhalative	systemic	short-term	16,36 mg/m ³ (ECETOC TRA worker v3)	0,773
inhalative	local	long-term	0,818 mg/kg bw/day (ECETOC TRA worker v3)	0,046
inhalative	local	short-term	16,36 mg/kg bw/day (ECETOC TRA worker v3)	0,309
dermal	systemic	long-term	1,071 mg/kg bw/day (ECETOC TRA worker v3)	0,536
dermal	local	long-term	0,05 mg/cm ² (ECETOC TRA worker v3)	< 0,01
dermal	local	short-term	0,05 mg/cm ² (ECETOC TRA worker v3)	< 0,01
combined routes	systemic	long-term		0,652

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

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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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ES6: Consumer end-use of washing and cleaning products

6.1. Title section

Structured Short Title	:	Service life - consumers; Consumer uses (SU21).
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Environment

CS1	Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)	ERC8d
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Consumer

CS2	Washing and cleaning products (including solvent based products)	PC35
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6.2. Conditions of use affecting exposure

6.2.1. Control of environmental exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8d)

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

Daily amount per site	:	0,055 kg
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Conditions and measures related to treatment of waste (including article waste)

Waste treatment	:	All contaminated waste water must be processed in an industrial or municipal wastewater treatment plant that incorporates both primary and secondary treatments.
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Other conditions affecting environmental exposure

Local freshwater dilution factor	:	10
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Local marine water dilution factor	:	100
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6.2.2. Control of consumer exposure: Washing and cleaning products (including solvent based products) (PC35)

Product (article) characteristics

Covers concentrations up to 0,1 %

Physical form of product	:	Liquid
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Amount used, frequency and duration of use (or from service life)

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Use frequency : Covers exposure up to 1 events per day

Other conditions affecting consumers exposure

Body parts exposed : Assumes that potential dermal contact is limited to hands.

6.3. Exposure estimation and reference to its source**6.3.1. Environmental release and exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8d)**

Release route	Release rate	Release estimation method
Water	0,055 kg/day	Environmental Release Category (ERC)
Air	0,055 kg/day	Environmental Release Category (ERC)
Soil	0,011 kg/day	Environmental Release Category (ERC)

Compartment	Exposure level	RCR
Freshwater	0,000306 mg/L (EUSES v2.1)	0,133
Freshwater sediment	0,00596 mg/kg dry weight (EUSES v2.1)	0,133
Marine water	0,0000304 mg/L (EUSES v2.1)	0,132
Marine sediment	0,000592 mg/kg dry weight (EUSES v2.1)	0,132
Sewage treatment plant	0,00293 mg/L (EUSES v2.1)	< 0,01
Soil	0,00106 mg/kg dry weight (EUSES v2.1)	0,05

6.3.2. Consumer exposure: Washing and cleaning products (including solvent based products) (PC35)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	1,339 mg/m ³ (ECETOC TRA consumer v3)	0,77
inhalative	local	long-term	1,339 mg/m ³ (ECETOC TRA consumer v3)	0,308

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dermal	systemic	long-term	0,143 mg/kg bw/day (ECETOC TRA consumer v3)	0,143
oral	systemic	long-term	0 mg/kg bw/day (ECETOC TRA consumer v3)	< 0,01
combined routes	systemic	long-term		0,913

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

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).

ES7: Consumer end-use of air care products

7.1. Title section

Structured Short Title

:

Environment		
CS1	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)	ERC8a
Consumer		
CS2	Air care products	PC3

7.2. Conditions of use affecting exposure

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

The total tonnage of all end-uses is considered under ES6.

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7.2.2. Control of consumer exposure: Air care products (PC3)

Product (article) characteristics

Covers concentrations up to 0,5 %

Physical form of product : Liquid

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

Use frequency : Covers exposure up to 1 events per day

7.3. Exposure estimation and reference to its source**7.3.1. Environmental release and exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a)**

Additional information on exposure estimation

The total tonnage of all end-uses is considered under ES6.

7.3.2. Consumer exposure: Air care products (PC3)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	1,087 mg/m ³	0,625
			(ECETOC TRA consumer v3)	
inhalative	local	long-term	1,087 mg/m ³ (ECETOC TRA consumer v3)	0,25
dermal	systemic	long-term	0 mg/kg bw/day (ECETOC TRA consumer v3)	< 0,01
oral	systemic	long-term	0 mg/kg bw/day (ECETOC TRA consumer v3)	< 0,01
combined routes	systemic	long-term		0,625

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

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).

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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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ES8: Consumer end-use of biocides

8.1. Title section

Structured Short Title

:

Environment

CS1 Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) ERC8d

Consumer

CS2 Biocidal products (e.g. Disinfectants, pest control) PC8

8.2. Conditions of use affecting exposure

8.2.1. Control of environmental exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8d)

The total tonnage of all end-uses is considered under ES6.

8.2.2. Control of consumer exposure: Biocidal products (e.g. Disinfectants, pest control) (PC8)

Product (article) characteristics

Covers concentrations up to 0,05 %

Physical form of product : Liquid

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

Use frequency : Covers exposure up to 1 events per day

Other conditions affecting consumers exposure

Body parts exposed : Assumes that potential dermal contact is limited to upper part of the body.

8.3. Exposure estimation and reference to its source

Administrative information:

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8.3.1. Environmental release and exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8d)

Additional information on exposure estimation

The total tonnage of all end-uses is considered under ES6.

8.3.2. Consumer exposure: Biocidal products (e.g. Disinfectants, pest control) (PC8)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0,095 mg/m ³ (ECETOC TRA consumer v3)	0,055
inhalative	local	long-term	0,095 mg/m ³ (ECETOC TRA consumer v3)	0,022
dermal	systemic	long-term	0,729 mg/kg bw/day (ECETOC TRA consumer v3)	0,729
oral	systemic	long-term	0 mg/kg bw/day (ECETOC TRA consumer v3)	< 0,01
combined routes	systemic	long-term		0,784

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

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).

ES9: Consumer end-use of polishes and wax blends

9.1. Title section

Structured Short Title

:

Environment

Administrative information:

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CS1 Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)	ERC8a
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Consumer

CS2	Polishes and wax blends	PC31
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9.2. Conditions of use affecting exposure

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

The total tonnage of all end-uses is considered under ES6.

9.2.2. Control of consumer exposure: Polishes and wax blends (PC31)

Product (article) characteristics

Covers concentrations up to 0,1 %

Physical form of product	: Liquid
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Amount used, frequency and duration of use (or from service life)

Use frequency	: Covers exposure up to 1 events per day
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Other conditions affecting consumers exposure

Body parts exposed	: Assumes that potential dermal contact is limited to inside hands / one hand / palm of hands.
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9.3. Exposure estimation and reference to its source

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

Additional information on exposure estimation

The total tonnage of all end-uses is considered under ES6.
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9.3.2. Consumer exposure: Polishes and wax blends (PC31)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
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inhalative	systemic	long-term	1,205 mg/m ³ (ECETOC TRA consumer v3)	0,693
inhalative	local	long-term	1,205 mg/m ³ (ECETOC TRA consumer v3)	0,277
dermal	systemic	long-term	0,175 mg/kg bw/day (ECETOC TRA consumer v3)	0,175
oral	systemic	long-term	0 mg/kg bw/day (ECETOC TRA consumer v3)	< 0,01
combined routes	systemic	long-term		0,868

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

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).

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ES10: Consumer (and Professional) end-use of cosmetics

10.1. Title section

Structured Short Title

:

Environment		
CS1	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)	ERC8a
Consumer		
CS2	Perfumes, fragrances, Cosmetics, personal care products	PC28, PC39

10.2. Conditions of use affecting exposure

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

The total tonnage of all end-uses is considered under ES6.

10.2.2. Control of consumer exposure: Perfumes, fragrances (PC28) / Cosmetics, personal care products (PC39)

Consumer uses e.g. as a carrier in cosmetics/personal care products, perfumes and fragrances. Note:

For cosmetic and personal care products, risk assessment only required for the environment under REACH as human health is covered by alternative legislation

10.3. Exposure estimation and reference to its source

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

Additional information on exposure estimation

The total tonnage of all end-uses is considered under ES6.

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

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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