

**ALDEHYDE C 10 DECYLIC FOOD GRADE**

Version 8.2

Revision Date 20 FEB 2018

Print Date 06 APR 2018

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

**1.1 Product identifier**

Sales No. : 1360203  
ALDEHYDE C 10 DECYLIC FOOD GRADE

Substance name : DECANAL  
Identifier

CAS-No. : 112-31-2  
EC-No. : 203-957-4  
Formula : C10-H20-O

REACH Registration Number : 01-2119967771-26-0000

**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.msds\_fragrances\_raps@givaudan.com  
Responsible/issuing person

**1.4 Emergency telephone number**

+33172110003  
Please refer to section 16 for a full list of emergency phone numbers.

**SECTION 2. Hazards identification**

**2.1 Classification of the substance or mixture**

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

Skin irritation, Category 2 H315: Causes skin irritation.  
Eye irritation, Category 2 H319: Causes serious eye irritation.  
Chronic aquatic toxicity, Category 3 H412: Harmful to aquatic life with long lasting effects.

**2.2 Label elements**

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

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Hazard pictograms

:



Signal word

: Warning

Hazard statements

: H315  
H319  
H412

Causes skin irritation.  
Causes serious eye irritation.  
Harmful to aquatic life with long lasting effects.

Precautionary statements

: **Prevention:**  
P264  
P273  
P280

Wash skin thoroughly after handling.  
Avoid release to the environment.  
Wear protective gloves/ eye protection/ face protection.

**Response:**

P332 + P313

If skin irritation occurs: Get medical advice/ attention.

P337 + P313

If eye irritation persists: Get medical advice/ attention.

**Disposal:**

P501

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

**Additional Labelling:**

EUH208 Contains: 3,4-dihydro-2,5,7,8-tetramethyl-2-(4,8,12-trimethyltridecyl)-2H-benzopyran-6-ol May produce an allergic reaction.

**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.

**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]
decanal	112-31-2 203-957-4 01-2119967771-26-0000 01-2119967771-26-0002	>= 90 - <= 100
3,4-dihydro-2,5,7,8-tetramethyl-2-(4,8,12-trimethyltridecyl)-2H-benzopyran-6-ol	10191-41-0 233-466-0	>= 0,1 - < 1

**SECTION 4. First aid measures**

**4.1 Description of first aid measures**

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

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

- Symptoms : no data available  
Risks : no data available

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

- Treatment : no data available

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**SECTION 5. Firefighting measures**

**5.1 Extinguishing media**

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

Unsuitable extinguishing media : High volume water jet

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

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

**5.3 Advice for firefighters**

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

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

**SECTION 6. Accidental release measures**

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

Personal precautions : no data available

**6.2 Environmental precautions**

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

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

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

**6.4 Reference to other sections**

Not applicable

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**SECTION 7. Handling and storage**

**7.1 Precautions for safe handling**

Advice on safe handling : Do not breathe vapours/dust.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Dispose of rinse water in accordance with local and national regulations.

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

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

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

Further information on storage conditions : Ambient / 10-30°C (50-85°F)  
Dry, well ventilated, preferably full, hermetically sealed  
Advice on common storage : Protect against light.Store under inert gas  
German storage class : no data available  
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  
112-31-2 : End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Long-term systemic effects

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Value: 24,86 mg/m<sup>3</sup>

End Use: Workers

Exposure routes: Inhalation

Potential health effects: Acute systemic effects

Value: 49,71 mg/m<sup>3</sup>

End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term local effects

Value: 62,14 mg/m<sup>3</sup>

End Use: Workers

Exposure routes: Inhalation

Potential health effects: Acute local effects

Value: 124,3 mg/m<sup>3</sup>

End Use: Workers

Exposure routes: Dermal

Potential health effects: Long-term systemic effects

Value: 7,05 mg/kg bw/day

End Use: Workers

Exposure routes: Dermal

Potential health effects: Acute systemic effects

Value: 14,1 mg/kg bw/day

End Use: Workers

Exposure routes: Dermal

Potential health effects: Long-term local effects

Value: 17,62 mg/cm<sup>2</sup>

End Use: Workers

Exposure routes: Dermal

Potential health effects: Acute local effects

Value: 35,24 mg/cm<sup>2</sup>

End Use: Consumer use

Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 6,13 mg/m<sup>3</sup>

End Use: Consumer use

Exposure routes: Inhalation

Potential health effects: Acute systemic effects

Value: 12,26 mg/m<sup>3</sup>

End Use: Consumer use

Exposure routes: Inhalation

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Potential health effects: Long-term local effects  
Value: 15,32 mg/m<sup>3</sup>

End Use: Consumer use  
Exposure routes: Inhalation  
Potential health effects: Acute local effects  
Value: 30,65 mg/m<sup>3</sup>

End Use: Consumer use  
Exposure routes: Dermal  
Potential health effects: Long-term systemic effects  
Value: 3,52 mg/kg bw/day

End Use: Consumer use  
Exposure routes: Dermal  
Potential health effects: Acute systemic effects  
Value: 7,05 mg/kg bw/day

End Use: Consumer use  
Exposure routes: Dermal  
Potential health effects: Long-term local effects  
Value: 8,81 mg/cm<sup>2</sup>

End Use: Consumer use  
Exposure routes: Dermal  
Potential health effects: Acute local effects  
Value: 17,62 mg/cm<sup>2</sup>

End Use: Consumer use  
Exposure routes: Oral  
Potential health effects: Long-term systemic effects  
Value: 3,52 mg/kg bw/day

PNEC  
112-31-2

: Fresh water  
Value: 0,00117 mg/l

Fresh water sediment  
Value: 0,097 mg/kg dry weight (d.w.)

Marine water  
Value: 0,000117 mg/l

Marine sediment  
Value: 0,00972 mg/kg dry weight (d.w.)

Sewage treatment plant  
Value: 3,16 mg/l

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Soil  
Value: 0,019 mg/kg dry weight (d.w.)

**8.2 Exposure controls**

**Personal protective equipment**

- Respiratory protection : Use only in well-ventilated areas.
- 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 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, tested for chemicals indicated in chapter 3 of this SDS. Permeation time must exceed contact time.
- Eye protection : Use tightly fitting safety glasses according to EN 166.
- Skin and body protection : Wear working clothes covering arms and legs.
- Hygiene measures : Do not eat, drink or smoke during work. Wash and dry hands after finished working.
- Protective measures : Exposure assessment: Exposure is 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 respiratory protection.  
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 and used to PPE handling.

**Environmental exposure controls**

- General advice : Prevent product from entering drains.

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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
Colour	: colorless to Pale yellow
Taste	: Aldehydic, Citrus, Orange
Odour	: Aldehydic, fatty odour, Citrus-like, Floral
Odour Threshold	: 2,6494 ng/l
Flash point	: 93 °C Method: Pensky-Martens closed cup
Lower explosion limit	: not determined
Upper explosion limit	: not determined
Flammability (solid, gas)	: no data available
Oxidizing properties	: The substance or mixture is not classified as oxidizing. Information taken from reference works and the literature.
Auto-ignition temperature	: 200 °C Method: DIN 51794
Decomposition temperature	: no data available
Molecular weight	: 156,30 g/mol
pH	: no data available
Melting point	: -4 °C
Boiling point	: 216 °C at 1 013 hPa
Vapour pressure	: 0,082 hPa at 20 °C Method: OECD Test Guideline 104
Density	: 828,50 kg/m <sup>3</sup> at 20 °C
Bulk density	: Not applicable
Water solubility	: 29,4 mg/l at 20 °C
Solubility/qualitative	: insoluble
Partition coefficient: n-octanol/water	: log Pow: 3,8 Method: OECD Test Guideline 117
Viscosity, kinematic	: 2,3 mm <sup>2</sup> /s at 20 °C Method: OECD Test Guideline 114
Relative vapour density	: no data available
Evaporation rate	: no data available
Explosive properties	: Not explosive

**9.2 Other information**

Not applicable

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**SECTION 10. Stability and reactivity**

**10.1 Reactivity**

none

**10.2 Chemical stability**

The product is chemically stable.

**10.3 Possibility of hazardous reactions**

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

**10.4 Conditions to avoid**

Conditions to avoid : no data available

**10.5 Incompatible materials**

Materials to avoid : no data available

**10.6 Hazardous decomposition products**

Hazardous decomposition products : no data available

Thermal decomposition : no data available

**SECTION 11. Toxicological information**

**11.1 Information on toxicological effects**

**Acute toxicity**

**Acute oral toxicity** : LD50 Rat  
Dose: 3 730 mg/kg

**Acute inhalation toxicity** : This information is not available.

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

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

**Skin corrosion/irritation**

Skin irritation : Species: Rabbit  
Skin irritation

**Serious eye damage/eye irritation**

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Eye irritation : Species: Rabbit  
Eye irritation

**Respiratory or skin sensitisation**

Sensitisation : Maximisation Test Guinea pig  
Result: Not sensitizing

**Germ cell mutagenicity**

Genotoxicity in vitro : Ames test  
negative

**Carcinogenicity**

Carcinogenicity : No data is available on the product itself.

**Reproductive toxicity**

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

**Target Organ Systemic Toxicant - Single exposure**

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

**Target Organ Systemic Toxicant - Repeated exposure**

Target Organ Systemic Toxicant - Repeated exposure : Species: Rat, male and female  
Application Route: Oral  
Exposure time: 90d ()  
NOAEL: 2000 ppm  
Test substance: Dodecanal  
Method: OECD Test Guideline 408  
Expert judgement

**Aspiration hazard**

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

**Phototoxicity**

Phototoxicity : No data is available on the product itself.

**Further information** : no data available

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**SECTION 12. Ecological information**

**12.1 Toxicity**

Toxicity to fish	: no data available
Toxicity to daphnia and other aquatic invertebrates	: no data available
Toxicity to algae	: no data available
Toxicity to bacteria	: no data available
Toxicity to fish (Chronic toxicity)	: no data available
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: no data available
Acute aquatic toxicity	: no data available
Chronic aquatic toxicity	: no data available
Toxicity Data on Soil	: no data available
Other organisms relevant to the environment	: no data available

**12.2 Persistence and degradability**

Biodegradability	: Result: Readily biodegradable. 82 % Method: OECD Test Guideline 301 F Result: Inherently biodegradable. 78 % Method: OECD Test Guideline 302 C
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**12.3 Bioaccumulative potential**

Bioaccumulation	: no data available
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**12.4 Mobility in soil**

Mobility	: no data available
Distribution among environmental compartments	: no data available
Additional advice	: no data available
Environmental fate and pathways	
Physico-chemical removability	: no data available

**12.5 Results of PBT and vPvB 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.

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**12.6 Other adverse effects**

Biochemical Oxygen Demand (BOD)	:	no data available
Dissolved organic carbon (DOC)	:	no data available
Chemical Oxygen Demand (COD)	:	no data available
Adsorbed organic bound halogens (AOX)	:	no data available
Additional ecological information	:	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life with long lasting effects.

**SECTION 13. Disposal considerations**

**13.1 Waste treatment methods**

Product	:	The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.
Contaminated packaging	:	Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

Dispose of in accordance with local regulations.

**SECTION 14. Transport information**

**14.1 UN number**

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

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**14.5 Environmental hazards**

N/A

**14.6 Special precautions for user**

**IMDG**

IMDG Code Segregation : None  
 Group

**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable for product as supplied.

**SECTION 15. Regulatory information**

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

Major Accident Hazard : Not applicable  
 Legislation

Water contaminating class : WGK 2 water endangering  
 (Germany) Number: 3 484  
 Classification according to appendix 3

**15.2 Chemical safety assessment**

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

**SECTION 16. Other information**

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

H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H412 Harmful to aquatic life with long lasting effects.

**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 69 222 25285		Taiwan	+886 2 8793 3212
	Spain	+34 91 114 2520		Japan	+81 3 4578 9341

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	Italy	+39 02 3604 2884		Indonesia	007 803 011 0293
	Netherlands	+31 10 713 8195		Malaysia	+60 3 6207 4347
	Turkey	+90 212 375 5231		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	+65 3158 1203
	Sweden	+46 8 566 42573		Vietnam	+84 28 4458 2388
	Poland	+48 22 307 3690		Korea	+65 3158 1285
	Czech republic	+420 228 882 830		South Korea	+82 2 3479 8401
	Finland	+358 9 7479 0199		Australia	+61 2 8014 4558
Middle East/Africa	All Middle East/Africa	+44 1235 239671		New Zealand	+64 9 929 1483
	Bahrain and Middle East	+973 1619 8321		China	+86 532 8388 9090
	Africa/South Africa	+27 21 300 2732		Mexico	+52 55 5004 8763
NOAM	USA and Canada	+1 866 928 0789	LATAM	Brazil	+55 11 3197 5891
	USA and Canada	+1 215 207 0061		Chile	+56 2 2582 9336
	USA and Canada	+1 202 464 2554	Global	Global	+44 1865 407333

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

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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**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

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**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).

**Environment**

**CS1** Formulation into mixture ERC2

**Worker**

**CS2** Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions PROC1

**CS3** Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition PROC3

**CS4** Mixing or blending in batch processes PROC5

**CS5** Transfer of substance or mixture (charging/discharging) at non dedicated-facilities PROC8a

**CS6** Transfer of substance or mixture (charging/discharging) at dedicated facilities PROC8b

**CS7** Transfer of substance or mixture into small containers (dedicated filling line, including weighing) PROC9

**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 : 80 kg

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

STP type : Municipal sewage treatment plant

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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

**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 : One hand face only (240 cm<sup>2</sup>)

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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**

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<sup>2</sup>)

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 %.

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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 cm<sup>2</sup>)

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)**

**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 %

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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 cm<sup>2</sup>)

Indoor or outdoor use : Indoor use

Temperature : &lt; 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 &lt; 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 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 cm<sup>2</sup>)**Administrative information:**

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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 cm<sup>2</sup>)

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

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**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 cm<sup>2</sup>)

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	0,16 kg/day	IFRA SpERC 2.1a.v1
Air	2 kg/day	IFRA SpERC 2.1a.v1
Soil	0 kg/day	IFRA SpERC 2.1a.v1

Compartment	Exposure level	RCR
Freshwater	0,000824 mg/L (EUSES v2.1)	0,704
Freshwater sediment	0,068 mg/kg dry weight (EUSES v2.1)	0,703
Marine water	0,0000821 mg/L (EUSES v2.1)	0,702
Marine sediment	0,00682 mg/kg dry weight (EUSES v2.1)	0,702

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Sewage treatment plant.	0,00812 mg/L (EUSES v2.1)	< 0,01
Soil	0,0000674 mg/kg dry weight (EUSES v2.1)	< 0,01

**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 <sup>3</sup> (ECETOC TRA worker V3)	< 0,01
inhalative	systemic	short-term	0,018 mg/m <sup>3</sup> (ECETOC TRA worker V3)	< 0,01
inhalative	local	long-term	0,001 mg/m <sup>3</sup> (ECETOC TRA worker V3)	< 0,01
inhalative	local	short-term	0,018 mg/m <sup>3</sup> (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 <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
Dermal	local	short-term	0,001 mg/cm <sup>2</sup> (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
inhalative	systemic	long-term	1,172 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,047
inhalative	systemic	short-term	7,814 mg/m <sup>3</sup>	0,157

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			(ECETOC TRA worker V3)	
inhalative	local	long-term	1,172 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,019
inhalative	local	short-term	7,814 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,063
Dermal	systemic	long-term	0,069 mg/kg bw/day (ECETOC TRA worker V3)	< 0,01
Dermal	local	long-term	0,02 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
Dermal	local	short-term	0,02 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
combined routes	systemic	long-term		0,057

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	1,953 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,079
inhalative	systemic	short-term	13,02 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,262
inhalative	local	long-term	1,953 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,031
inhalative	local	short-term	13,02 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,105
Dermal	systemic	long-term	1,371 mg/kg bw/day (ECETOC TRA worker V3)	0,195
Dermal	local	long-term	0,2 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	0,011

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Dermal	local	short-term	0,2 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
combined routes	systemic	long-term		0,273

**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	2,344 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,094
inhalative	systemic	short-term	15,63 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,314
inhalative	local	long-term	2,344 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,038
inhalative	local	short-term	15,63 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,126
Dermal	systemic	long-term	0,823 mg/kg bw/day (ECETOC TRA worker V3)	0,117
Dermal	local	long-term	0,06 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
Dermal	local	short-term	0,06 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
combined routes	systemic	long-term		0,211

**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	0,195 mg/m <sup>3</sup> (ECETOC TRA worker V3)	< 0,01
inhalative	systemic	short-term	3,907 mg/m <sup>3</sup>	0,079

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			(ECETOC TRA worker V3)	
inhalative	local	long-term	0,195 mg/m <sup>3</sup> (ECETOC TRA worker V3)	< 0,01
inhalative	local	short-term	3,907 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,031
Dermal	systemic	long-term	0,823 mg/kg bw/day (ECETOC TRA worker V3)	0,117
Dermal	local	long-term	0,06 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
Dermal	local	short-term	0,06 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
combined routes	systemic	long-term		0,124

**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	0,391 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,016
inhalative	systemic	short-term	7,814 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,157
inhalative	local	long-term	0,391 mg/m <sup>3</sup> (ECETOC TRA worker V3)	< 0,01
inhalative	local	short-term	7,814 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,063
Dermal	systemic	long-term	0,412 mg/kg bw/day (ECETOC TRA worker V3)	0,058
Dermal	local	long-term	0,06 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01

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Dermal	local	short-term	0,06 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
combined routes	systemic	long-term		0,074

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0,326 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,013
inhalative	systemic	short-term	13,02 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,262
inhalative	local	long-term	0,326 mg/m <sup>3</sup> (ECETOC TRA worker V3)	< 0,01
inhalative	local	short-term	13,02 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,105
Dermal	systemic	long-term	0,034 mg/kg bw/day (ECETOC TRA worker V3)	< 0,01
Dermal	local	long-term	0,01 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
Dermal	local	short-term	0,01 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
combined routes	systemic	long-term		0,018

**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).

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**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**

**CS2** Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions PROC1

**CS3** Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions PROC2

**CS4** Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition PROC3

**CS5** Mixing or blending in batch processes PROC5

**CS6** Transfer of substance or mixture (charging/discharging) at non dedicated-facilities PROC8a

**CS7** Transfer of substance or mixture (charging/discharging) at dedicated facilities PROC8b

**CS8** Transfer of substance or mixture into small containers (dedicated filling line, including weighing) PROC9

**CS9** Tableting, 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

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**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

**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 %

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**Other conditions affecting workers exposure**

Body parts exposed : One hand face only (240 cm<sup>2</sup>)

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)**

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 cm<sup>2</sup>)

Indoor or outdoor use : Indoor use

Temperature : < 40 °C

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**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**

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<sup>2</sup>)

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

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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 cm<sup>2</sup>)

Indoor or outdoor use : Indoor use

Temperature : &lt; 40 °C

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

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

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

Duration : Application duration &lt; 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.

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Dermal - minimum efficiency of 90 %  
Inhalation - minimum efficiency of 0 %

**Other conditions affecting workers exposure**Body parts exposed : Assumes 2 hands (960 cm<sup>2</sup>)

Indoor or outdoor use : Indoor use

Temperature : &lt; 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 &lt; 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 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 cm<sup>2</sup>)

Indoor or outdoor use : Indoor use

Temperature : &lt; 40 °C

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**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 cm<sup>2</sup>)

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

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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 cm<sup>2</sup>)

Indoor or outdoor use : Indoor use

Temperature : &lt; 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)**

Duration : Application duration &lt; 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 %

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Inhalation - minimum efficiency of 0 %

**Other conditions affecting workers exposure**

Body parts exposed : One hand face only (240 cm<sup>2</sup>)

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	0,000089 mg/L (EUSES v2.1)	0,076
Freshwater sediment	0,00739 mg/kg dry weight (EUSES v2.1)	0,076
Marine water	0,0000087 mg/L (EUSES v2.1)	0,074
Marine sediment	0,000721 mg/kg dry weight (EUSES v2.1)	0,074
Sewage treatment plant.	0,000761 mg/L (EUSES v2.1)	< 0,01
Soil	0,00145 mg/kg dry weight (EUSES v2.1)	0,077

**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	0,008 mg/m <sup>3</sup> (ECETOC TRA worker V3)	< 0,01
inhalative	systemic	short-term	0,156 mg/m <sup>3</sup> (ECETOC TRA)	< 0,01

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			worker V3)	
inhalative	local	long-term	0,008 mg/m <sup>3</sup> (ECETOC TRA worker V3)	< 0,01
inhalative	local	short-term	0,156 mg/m <sup>3</sup> (ECETOC TRA worker V3)	< 0,01
Dermal	systemic	long-term	0,002 mg/kg bw/day (ECETOC TRA worker V3)	< 0,01
Dermal	local	long-term	0,001 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
Dermal	local	short-term	0,001 mg/cm <sup>2</sup> (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	0,078 mg/m <sup>3</sup> (ECETOC TRA worker V3)	< 0,01
inhalative	systemic	short-term	1,563 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,031
inhalative	local	long-term	0,078 mg/m <sup>3</sup> (ECETOC TRA worker V3)	< 0,01
inhalative	local	short-term	1,563 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,013
Dermal	systemic	long-term	0,082 mg/kg bw/day (ECETOC TRA worker V3)	0,012
Dermal	local	long-term	0,012 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01

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Dermal	local	short-term	0,012 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
combined routes	systemic	long-term		0,015

**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	0,703 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,028
inhalative	systemic	short-term	4,688 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,094
inhalative	local	long-term	0,703 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,011
inhalative	local	short-term	4,688 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,038
Dermal	systemic	long-term	0,041 mg/kg bw/day (ECETOC TRA worker V3)	< 0,01
Dermal	local	long-term	0,012 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
Dermal	local	short-term	0,012 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
combined routes	systemic	long-term		0,034

**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	1,172 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,047
inhalative	systemic	short-term	7,814 mg/m <sup>3</sup>	0,157

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			(ECETOC TRA worker V3)	
inhalative	local	long-term	1,172 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,019
inhalative	local	short-term	7,814 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,063
Dermal	systemic	long-term	0,823 mg/kg bw/day (ECETOC TRA worker V3)	0,117
Dermal	local	long-term	0,12 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
Dermal	local	short-term	0,12 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
combined routes	systemic	long-term		0,164

**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	0,391 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,016
inhalative	systemic	short-term	2,604 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,052
inhalative	local	long-term	0,391 mg/m <sup>3</sup> (ECETOC TRA worker V3)	< 0,01
inhalative	local	short-term	2,604 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,021
Dermal	systemic	long-term	0,137 mg/kg bw/day (ECETOC TRA worker V3)	0,019
Dermal	local	long-term	0,01 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01

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Dermal	local	short-term	0,01 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
combined routes	systemic	long-term		0,035

**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	0,195 mg/m <sup>3</sup> (ECETOC TRA worker V3)	< 0,01
inhalative	systemic	short-term	3,907 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,079
inhalative	local	long-term	0,195 mg/m <sup>3</sup> (ECETOC TRA worker V3)	< 0,01
inhalative	local	short-term	3,907 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,031
Dermal	systemic	long-term	0,823 mg/kg bw/day (ECETOC TRA worker V3)	0,117
Dermal	local	long-term	0,06 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
Dermal	local	short-term	0,06 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
combined routes	systemic	long-term		0,124

**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	0,065 mg/m <sup>3</sup> (ECETOC TRA worker V3)	< 0,01
inhalative	systemic	short-term	1,302 mg/m <sup>3</sup>	0,026

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			(ECETOC TRA worker V3)	
inhalative	local	long-term	0,065 mg/m <sup>3</sup> (ECETOC TRA worker V3)	< 0,01
inhalative	local	short-term	1,302 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,01
Dermal	systemic	long-term	0,069 mg/kg bw/day (ECETOC TRA worker V3)	< 0,01
Dermal	local	long-term	0,01 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
Dermal	local	short-term	0,01 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
combined routes	systemic	long-term		0,012

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0,326 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,013
inhalative	systemic	short-term	1,302 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,026
inhalative	local	long-term	0,326 mg/m <sup>3</sup> (ECETOC TRA worker V3)	< 0,01
inhalative	local	short-term	1,302 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,01
Dermal	systemic	long-term	0,034 mg/kg bw/day (ECETOC TRA worker V3)	< 0,01
Dermal	local	long-term	0,005 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01

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Dermal	local	short-term	0,005 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
combined routes	systemic	long-term		0,018

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0,084 mg/m <sup>3</sup> (ECETOC TRA worker V3)	< 0,01
inhalative	systemic	short-term	3,365 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,157
inhalative	local	long-term	0,084 mg/m <sup>3</sup> (ECETOC TRA worker V3)	< 0,01
inhalative	local	short-term	3,365 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,063
Dermal	systemic	long-term	0,02 mg/kg bw/day (ECETOC TRA worker V3)	< 0,01
Dermal	local	long-term	0,006 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
Dermal	local	short-term	0,006 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
combined routes	systemic	long-term		0,011

**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).

**Environment**

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

**Worker**

**CS2** Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions PROC1

**CS3** Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions PROC2

**CS4** Chemical production where opportunity for exposure arises PROC4

**CS5** Industrial spraying PROC7

**CS6** Transfer of substance or mixture (charging/discharging) at dedicated facilities PROC8b

**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

**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)**

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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**

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

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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.  
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 cm<sup>2</sup>)  
Indoor or outdoor use : Outdoor use

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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 %.

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.  
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 cm<sup>2</sup>)

Indoor or outdoor use : Indoor 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

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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

**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 cm<sup>2</sup>)

Indoor or outdoor use : Outdoor 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 cm<sup>2</sup>)

Indoor or outdoor use : Outdoor use

Temperature : < 40 °C

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**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

**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 cm<sup>2</sup>)

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.

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**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	0,005 mg/m <sup>3</sup> (ECETOC TRA worker V3)	< 0,01
inhalative	systemic	short-term	0,018 mg/m <sup>3</sup> (ECETOC TRA worker V3)	< 0,01
inhalative	local	long-term	0,005 mg/m <sup>3</sup> (ECETOC TRA worker V3)	< 0,01
inhalative	local	short-term	0,018 mg/m <sup>3</sup> (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 <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
Dermal	local	short-term	0,001 mg/cm <sup>2</sup> (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	0,456 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,018
inhalative	systemic	short-term	1,823 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,037
inhalative	local	long-term	0,456 mg/m <sup>3</sup> (ECETOC TRA worker V3)	< 0,01
inhalative	local	short-term	1,823 mg/m <sup>3</sup>	0,015

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			(ECETOC TRA worker V3)	
Dermal	systemic	long-term	0,014 mg/kg bw/day (ECETOC TRA worker V3)	< 0,01
Dermal	local	long-term	0,002 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
Dermal	local	short-term	0,002 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
combined routes	systemic	long-term		0,02

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	2,279 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,092
inhalative	systemic	short-term	9,116 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,183
inhalative	local	long-term	2,279 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,037
inhalative	local	short-term	9,116 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,073
Dermal	systemic	long-term	0,069 mg/kg bw/day (ECETOC TRA worker V3)	< 0,01
Dermal	local	long-term	0,01 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
Dermal	local	short-term	0,01 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
combined routes	systemic	long-term		0,101

**3.3.5. Worker exposure: Industrial spraying (PROC7)**

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Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	3,256 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,131
inhalative	systemic	short-term	13,02 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,262
inhalative	local	long-term	3,256 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,052
inhalative	local	short-term	13,02 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,105
Dermal	systemic	long-term	4,286 mg/kg bw/day (ECETOC TRA worker V3)	0,608
Dermal	local	long-term	0,2 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	0,011
Dermal	local	short-term	0,2 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
combined routes	systemic	long-term		0,739

**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	0,651 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,026
inhalative	systemic	short-term	13,02 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,262
inhalative	local	long-term	0,651 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,01
inhalative	local	short-term	13,02 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,105

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Dermal	systemic	long-term	0,137 mg/kg bw/day (ECETOC TRA worker V3)	0,019
Dermal	local	long-term	0,01 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
Dermal	local	short-term	0,01 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
combined routes	systemic	long-term		0,046

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	4,558 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,183
inhalative	systemic	short-term	18,23 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,367
inhalative	local	long-term	4,558 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,073
inhalative	local	short-term	18,23 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,147
Dermal	systemic	long-term	0,274 mg/kg bw/day (ECETOC TRA worker V3)	0,039
Dermal	local	long-term	0,02 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
Dermal	local	short-term	0,02 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
combined routes	systemic	long-term		0,222

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
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inhalative	systemic	long-term	0,651 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,026
inhalative	systemic	short-term	2,604 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,052
inhalative	local	long-term	0,651 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,01
inhalative	local	short-term	2,604 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,021
Dermal	systemic	long-term	0,137 mg/kg bw/day (ECETOC TRA worker V3)	0,019
Dermal	local	long-term	0,02 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
Dermal	local	short-term	0,02 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
combined routes	systemic	long-term		0,046

**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).

**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 process without likelihood of exposure or processes with equivalent containment conditions PROC1

**CS3** Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions PROC2

**CS4** Chemical production where opportunity for exposure arises PROC4

**CS5** Transfer of substance or mixture (charging/discharging) at non dedicated-facilities PROC8a

**CS6** Transfer of substance or mixture (charging/discharging) at dedicated facilities PROC8b

**CS7** Roller application or brushing PROC10

**CS8** Non-industrial spraying PROC11

**CS9** Treatment of articles by dipping and pouring PROC13

**Consumer**

**CS10** Washing and cleaning products (including solvent based products) PC35

**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.

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**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)**

**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 cm<sup>2</sup>)

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

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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 cm<sup>2</sup>)

Indoor or outdoor use : Indoor use

Temperature : &lt; 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 &lt; 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 cm<sup>2</sup>)

Indoor or outdoor use : Outdoor use

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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**

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

**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 cm<sup>2</sup>)

Indoor or outdoor use : Outdoor 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

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**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 : Assumes 2 hands (960 cm<sup>2</sup>)

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 cm<sup>2</sup>)

Indoor or outdoor use : Outdoor use

Temperature : < 40 °C

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**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

**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 cm<sup>2</sup>)

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 %

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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 : 2 hands face only (480 cm<sup>2</sup>)

Indoor or outdoor use : Indoor use

Temperature : &lt; 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	0,005 mg/m <sup>3</sup> (ECETOC TRA worker V3)	< 0,01
inhalative	systemic	short-term	0,018 mg/m <sup>3</sup> (ECETOC TRA worker V3)	< 0,01
inhalative	local	long-term	0,005 mg/m <sup>3</sup> (ECETOC TRA worker V3)	< 0,01
inhalative	local	short-term	0,018 mg/m <sup>3</sup> (ECETOC TRA worker V3)	< 0,01
Dermal	systemic	long-term	0,003 mg/kg bw/day (ECETOC)	< 0,01

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			TRA worker V3)	
Dermal	local	long-term	0,001 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
Dermal	local	short-term	0,001 mg/cm <sup>2</sup> (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)**

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	2,279 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,092
inhalative	systemic	short-term	9,116 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,183
inhalative	local	long-term	2,279 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,037
inhalative	local	short-term	9,116 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,073
Dermal	systemic	long-term	0,137 mg/kg bw/day (ECETOC TRA worker V3)	0,019
Dermal	local	long-term	0,02 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
Dermal	local	short-term	0,02 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
combined routes	systemic	long-term		0,111

**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	4,558 mg/m <sup>3</sup>	0,183

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			(ECETOC TRA worker V3)	
inhalative	systemic	short-term	18,23 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,367
inhalative	local	long-term	4,558 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,073
inhalative	local	short-term	18,23 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,147
Dermal	systemic	long-term	0,686 mg/kg bw/day (ECETOC TRA worker V3)	0,097
Dermal	local	long-term	0,1 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
Dermal	local	short-term	0,1 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
combined routes	systemic	long-term		0,281

**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	2,279 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,092
inhalative	systemic	short-term	45,58 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,917
inhalative	local	long-term	2,279 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,037
inhalative	local	short-term	45,58 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,367
Dermal	systemic	long-term	1,371 mg/kg bw/day (ECETOC TRA worker V3)	0,195

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Dermal	local	long-term	0,1 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
Dermal	local	short-term	0,1 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
combined routes	systemic	long-term		0,286

**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	0,651 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,026
inhalative	systemic	short-term	26,05 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,524
inhalative	local	long-term	0,651 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,01
inhalative	local	short-term	26,05 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,21
Dermal	systemic	long-term	0,137 mg/kg bw/day (ECETOC TRA worker V3)	0,019
Dermal	local	long-term	0,01 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
Dermal	local	short-term	0,01 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
combined routes	systemic	long-term		0,046

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	11,39 mg/m <sup>3</sup> (ECETOC TRA)	0,458

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			worker V3)	
inhalative	systemic	short-term	45,58 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,917
inhalative	local	long-term	11,39 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,183
inhalative	local	short-term	45,58 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,367
Dermal	systemic	long-term	2,743 mg/kg bw/day (ECETOC TRA worker V3)	0,389
Dermal	local	long-term	0,2 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	0,011
Dermal	local	short-term	0,2 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
combined routes	systemic	long-term		0,847

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	4,558 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,183
inhalative	systemic	short-term	18,23 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,367
inhalative	local	long-term	4,558 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,073
inhalative	local	short-term	18,23 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,147
Dermal	systemic	long-term	1,071 mg/kg bw/day (ECETOC TRA worker V3)	0,152
Dermal	local	long-term	0,05 mg/cm <sup>2</sup>	< 0,01

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			(ECETOC TRA worker V3)	
Dermal	local	short-term	0,05 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
combined routes	systemic	long-term		0,335

**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	0,912 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,037
inhalative	systemic	short-term	18,23 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,367
inhalative	local	long-term	0,912 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,015
inhalative	local	short-term	18,23 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,147
Dermal	systemic	long-term	0,137 mg/kg bw/day (ECETOC TRA worker V3)	0,019
Dermal	local	long-term	0,02 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
Dermal	local	short-term	0,02 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
combined routes	systemic	long-term		0,056

**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).

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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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**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** Mixing or blending in batch processes PROC5

**CS4** Transfer of substance or mixture (charging/discharging) at non dedicated-facilities PROC8a

**CS5** Transfer of substance or mixture (charging/discharging) at dedicated facilities PROC8b

**CS6** Roller application or brushing PROC10

**CS7** Non-industrial spraying PROC11

**Consumer**

**CS8** Polishes and wax blends PC31

**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)**

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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 : Assumes 2 hands face only (480 cm<sup>2</sup>)

Indoor or outdoor use : Indoor use

Temperature : < 40 °C

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

**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**

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 cm<sup>2</sup>)

Indoor or outdoor use : Indoor use

Temperature : &lt; 40 °C

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

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

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

Duration : Application duration &lt; 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**

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Body parts exposed : Assumes 2 hands (960 cm<sup>2</sup>)

Indoor or outdoor use : Indoor use

Temperature : < 40 °C

**5.2.5. 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 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 cm<sup>2</sup>)

Indoor or outdoor use : Indoor use

Temperature : < 40 °C

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

**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 &lt; 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 (960 cm<sup>2</sup>)

Indoor or outdoor use : Indoor use

Temperature : &lt; 40 °C

**5.2.7. 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

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

Duration : Application duration &lt; 1 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 %

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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.  
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 cm<sup>2</sup>)

Indoor or outdoor use : Indoor use

Temperature : < 40 °C

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

**5.3.1. Environmental release and exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, 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	2,279 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,092
inhalative	systemic	short-term	9,116 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,183
inhalative	local	long-term	2,279 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,037
inhalative	local	short-term	9,116 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,073
Dermal	systemic	long-term	0,137 mg/kg bw/day (ECETOC	0,019

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			TRA worker V3)	
Dermal	local	long-term	0,02 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
Dermal	local	short-term	0,02 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
combined routes	systemic	long-term		0,111

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	4,558 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,183
inhalative	systemic	short-term	18,23 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,367
inhalative	local	long-term	4,558 mg/kg bw/day (ECETOC TRA worker V3)	0,073
inhalative	local	short-term	18,23 mg/kg bw/day (ECETOC TRA worker V3)	0,147
Dermal	systemic	long-term	0,137 mg/kg bw/day (ECETOC TRA worker V3)	0,019
Dermal	local	long-term	0,02 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
Dermal	local	short-term	0,02 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
combined routes	systemic	long-term		0,203

5.3.4. 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	11,39 mg/m <sup>3</sup>	0,458

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			(ECETOC TRA worker V3)	
inhalative	systemic	short-term	45,58 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,917
inhalative	local	long-term	11,39 mg/kg bw/day (ECETOC TRA worker V3)	0,183
inhalative	local	short-term	45,58 mg/kg bw/day (ECETOC TRA worker V3)	0,367
Dermal	systemic	long-term	0,137 mg/kg bw/day (ECETOC TRA worker V3)	0,019
Dermal	local	long-term	0,01 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
Dermal	local	short-term	0,01 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
combined routes	systemic	long-term		0,478

**5.3.5. 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	0,912 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,037
inhalative	systemic	short-term	18,23 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,367
inhalative	local	long-term	0,912 mg/kg bw/day (ECETOC TRA worker V3)	0,015
inhalative	local	short-term	18,23 mg/kg bw/day (ECETOC TRA worker V3)	0,147
Dermal	systemic	long-term	0,137 mg/kg bw/day (ECETOC TRA worker V3)	0,019

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Dermal	local	long-term	0,01 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
Dermal	local	short-term	0,01 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
combined routes	systemic	long-term		0,056

**5.3.6. Worker exposure: Roller application or brushing (PROC10)**

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	11,39 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,458
inhalative	systemic	short-term	45,58 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,917
inhalative	local	long-term	11,39 mg/kg bw/day (ECETOC TRA worker V3)	0,183
inhalative	local	short-term	45,58 mg/kg bw/day (ECETOC TRA worker V3)	0,367
Dermal	systemic	long-term	2,743 mg/kg bw/day (ECETOC TRA worker V3)	0,389
Dermal	local	long-term	0,2 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	0,011
Dermal	local	short-term	0,2 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
combined routes	systemic	long-term		0,847

**5.3.7. Worker exposure: Non-industrial spraying (PROC11)**

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0,912 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,037

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inhalative	systemic	short-term	18,23 mg/m <sup>3</sup> (ECETOC TRA worker V3)	0,367
inhalative	local	long-term	0,912 mg/kg bw/day (ECETOC TRA worker V3)	0,015
inhalative	local	short-term	18,23 mg/kg bw/day (ECETOC TRA worker V3)	0,147
Dermal	systemic	long-term	1,071 mg/kg bw/day (ECETOC TRA worker V3)	0,152
Dermal	local	long-term	0,05 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01
Dermal	local	short-term	0,05 mg/cm <sup>2</sup> (ECETOC TRA worker V3)	< 0,01

**5.4. 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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**ES6: Consumer end-use of washing and cleaning products**

**6.1. Title section**

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

**Environment**

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

**Consumer**

**CS2** Washing and cleaning products (including solvent based products) PC35

**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 : 0,011 kg

**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

**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 %

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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 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	0,000292 mg/L (EUSES v2.1)	0,249
Freshwater sediment	0,024 mg/kg dry weight (EUSES v2.1)	0,249
Marine water	0,000029 mg/L (EUSES v2.1)	0,248
Marine sediment	0,0024 mg/kg dry weight (EUSES v2.1)	0,247
Sewage treatment plant.	0,00279 mg/L (EUSES v2.1)	< 0,01
Soil	0,0053 mg/kg dry weight (EUSES v2.1)	0,284

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR

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inhalative	systemic	long-term	0,134 mg/m <sup>3</sup> (ECETOC TRA consumer V3)	0,022
inhalative	local	long-term	0,134 mg/m <sup>3</sup> (ECETOC TRA consumer V3)	< 0,01
Dermal	systemic	long-term	0,143 mg/kg bw/day (ECETOC TRA consumer V3)	0,041
Oral	systemic	long-term	0 mg/kg bw/day (ECETOC TRA consumer V3)	< 0,01
combined routes	systemic	long-term		0,062

**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).

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**ES7: Consumer end-use of air care products**

**7.1. Title section**

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

**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.

**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.

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**7.3.2. Consumer exposure: Air care products (PC3)**

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	2,174 mg/m <sup>3</sup> (ECETOC TRA consumer V3)	0,355
inhalative	local	long-term	2,174 mg/m <sup>3</sup> (ECETOC TRA consumer V3)	0,142
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		0,355

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

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**ES8: Consumer end-use of biocides**

**8.1. Title section**

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

**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.

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

**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 <sup>3</sup> (ECETOC TRA consumer V3)	0,016
inhalative	local	long-term	0,095 mg/m <sup>3</sup> (ECETOC TRA consumer V3)	< 0,01
Dermal	systemic	long-term	0,729 mg/kg bw/day (ECETOC TRA consumer V3)	0,207
Oral	systemic	long-term	0 mg/kg bw/day (ECETOC TRA consumer V3)	< 0,01
combined routes	systemic	long-term		0,223

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

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**ES9: Consumer end-use of polishes and wax blends**

**9.1. Title section**

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

**Environment**

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

**Consumer**

**CS2** Polishes and wax blends PC31

**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 0,5 %

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

**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.

**9.3.2. Consumer exposure: Polishes and wax blends (PC31)**

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0,074 mg/m <sup>3</sup> (ECETOC TRA consumer V3)	0,012
inhalative	local	long-term	0,074 mg/m <sup>3</sup> (ECETOC TRA consumer V3)	< 0,01
Dermal	systemic	long-term	0,357 mg/kg bw/day (ECETOC TRA consumer V3)	0,102
Oral	systemic	long-term	0 mg/kg bw/day (ECETOC TRA consumer V3)	< 0,01
combined routes	systemic	long-term		0,114

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

**10.1. Title section**

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

**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**

**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.

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**10.4. 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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