

Safety data sheet

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BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 22.04.2024

Version: 2.0

Date / Previous version: 27.09.2016

Previous version: 1.0

Product: **Geraniol Extra**

(ID no. 30035071/SDS_GEN_BE/EN)

Date of print 21.10.2025

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

1.1. Product identifier

Geraniol Extra

Chemical name: Geraniol

CAS Number: 106-24-1

REACH registration number: 01-2119552430-49-0000

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

Relevant identified uses: Chemical, Chemical for detergents, Cosmetic and oral care chemical, flavoring substance

For the detailed identified uses of the product see appendix of the safety data sheet.

1.3. Details of the supplier of the safety data sheet

Company:

BASF SE
67056 Ludwigshafen
GERMANY

Contact address:

BASF Belgium Coordination Center Comm.
V.
Drève Richelle 161 E Bte 43
1410 WATERLOO, BELGIUM

Telephone: +31 26 371 71 71

E-mail address: product-safety-benelux@basf.com

1.4. Emergency telephone number

Centre Antipoisons / Antigifcentrum

+ 32 70 245 245

International emergency number:

Telephone: +49 180 2273-112

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SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

According to Regulation (EC) No 1272/2008 [CLP]

Skin Corr./Irrit. 2	H315 Causes skin irritation.
Eye Dam./Irrit. 1	H318 Causes serious eye damage.
Skin Sens. 1	H317 May cause an allergic skin reaction.

For the classifications not written out in full in this section the full text can be found in section 16.

2.2. Label elements

According to Regulation (EC) No 1272/2008 [CLP]

Pictogram:



Signal Word:

Danger

Hazard Statement:

H318	Causes serious eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.

Precautionary Statements (Prevention):

P280	Wear protective gloves and eye protection or face protection.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.

Precautionary Statements (Response):

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or physician.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.

Precautionary Statements (Disposal):

P501	Dispose of contents and container to hazardous or special waste collection point.
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2.3. Other hazards

According to Regulation (EC) No 1272/2008 [CLP]

High risk of slipping due to leakage/spillage of product.

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria. Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting

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properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: Composition/Information on Ingredients

3.1. Substances

Chemical nature

fragrances

geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol

CAS Number: 106-24-1

EC-Number: 203-377-1

INDEX-Number: 603-241-00-5

Skin Corr./Irrit. 2

Eye Dam./Irrit. 1

Skin Sens. 1

H318, H315, H317

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

3.2. Mixtures

Not applicable

SECTION 4: First-Aid Measures

4.1. Description of first aid measures

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention. Immediately administer a corticosteroid from a controlled/metered dose inhaler.

On skin contact:

Immediately wash thoroughly with plenty of water, apply sterile dressings, consult a skin specialist.

On contact with eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

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

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and / or effects are not known so far

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

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing media

Suitable extinguishing media:
water spray, dry powder, carbon dioxide, foam

Unsuitable extinguishing media for safety reasons:
water jet

5.2. Special hazards arising from the substance or mixture

Endangering substances: carbon oxides, harmful vapours
Advice: The substances/groups of substances mentioned can be released in case of fire.

5.3. Advice for fire-fighters

Special protective equipment:
Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:
Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. Cool endangered containers with water-spray.

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Information regarding personal protective measures, see section 8. Ensure adequate ventilation. Do not breathe vapour/spray. Avoid contact with the skin, eyes and clothing.

6.2. Environmental precautions

Do not discharge into drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

For large amounts: Dike spillage. Pump off product.
For residues: Contain with absorbent material (e.g. sand, silica gel, acid binder, general purpose binder, sawdust).
Dispose of absorbed material in accordance with regulations.

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6.4. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

SECTION 7: Handling and Storage

7.1. Precautions for safe handling

Ensure thorough ventilation of stores and work areas. Wear suitable protective clothing and eye/face protection. Avoid contact with the skin, eyes and clothing. Keep container tightly sealed. This product may cause irritations; wash your hands after every contact.

Protection against fire and explosion:

Take precautionary measures against static discharges. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

7.2. Conditions for safe storage, including any incompatibilities

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place. Protect from the effects of light.

7.3. Specific end use(s)

| See exposure scenario(s) in the attachment to this safety data sheet.

SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

Components with occupational exposure limits

| No substance specific occupational exposure limits known.

PNEC

| freshwater: 0,0108 mg/l

| intermittent release: 0,108 mg/l

| marine water: 0,00108 mg/l

| STP: 0,7 mg/l

| sediment (freshwater): 0,115 mg/kg

| sediment (marine water): 0,0115 mg/kg

| soil: 0,0167 mg/kg

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oral (secondary poisoning):

No PNEC oral derived, as accumulation in organisms is not to be expected.

DNEL

worker:

Long-term exposure- systemic effects, Inhalation: 11,8 mg/m³

worker:

Long-term exposure- systemic effects, dermal: 4,2 mg/kg

worker:

Long-term exposure - local effects, dermal: 11800 µg/cm³

consumer:

Long-term exposure- systemic effects, oral: 2 mg/kg

consumer:

Long-term exposure- systemic effects, Inhalation: 3,5 mg/m³

consumer:

Long-term exposure- systemic effects, dermal: 2,5 mg/kg

consumer:

Long-term exposure - local effects, dermal: 1180 µg/cm³

8.2. Exposure controls

Personal protective equipment

Respiratory protection:

Respiratory protection in case of vapour/aerosol release. Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)

Consider the risk management measures as outlined in the exposure scenario.

Hand protection:

Suitable chemical resistant safety gloves (EN ISO 374-1) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc. Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

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Manufacturer's directions for use should be observed because of great diversity of types.

Consider the risk management measures as outlined in the exposure scenario.

Eye protection:

Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

Consider the risk management measures as outlined in the exposure scenario.

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

Consider the risk management measures as outlined in the exposure scenario.

General safety and hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is required additionally to the stated personal protection equipment. Avoid contact with the skin, eyes and clothing. No eating, drinking, smoking or tobacco use at the place of work. Hands and/or face should be washed before breaks and at the end of the shift. Store work clothing separately.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

State of matter:	liquid	
Form:	oil	
Colour:	colourless to pale yellow	
Odour:	pleasant, sweetish	
Odour threshold:	< 100 ppm	
Melting point:	-15 °C	
	Literature data.	
Boiling point:	> 220 °C	
	(1.013,25 hPa)	
	Cannot be distilled without decomposition at normal pressure.	
Boiling range:	229 - 230 °C	
	(1.013 hPa)	
	The substance / product decomposes.	
Flammability:	hardly combustible	(derived from flash point)
Lower explosion limit:	For liquids not relevant for classification and labelling., The lower explosion point may be 5 - 15 °C below the flash point.	

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Upper explosion limit:

For liquids not relevant for classification and labelling.

Flash point:	108 °C	(ISO 2719, closed cup)
Auto-ignition temperature:	250 °C	(Directive 92/69/EEC, A.15)
Thermal decomposition:	>= 280 °C (DSC (DIN 51007))	
SADT:	> 75 °C	
pH value:	7	
Viscosity, dynamic:	8,21 mPa.s (20 °C) Literature data.	
Solubility in water:	Literature data. 0,1 g/l (25 °C)	
Partitioning coefficient n-octanol/water (log Kow):	2,6	(OECD Guideline 117)
Vapour pressure:	1 hPa (70,6 °C) 5 hPa (95 °C) 10 hPa (106,9 °C) 0,0000796 hPa (20 °C) Extrapolated value	
Relative density:	0,89 (20 °C) Literature data.	
Density:	0,89 g/cm ³ (20 °C) Literature data.	
Relative vapour density (air):	5,31 (20 °C) Heavier than air.	(calculated)

Particle characteristics

Particle size distribution: The substance / product is marketed or used in a non solid or granular form. -

9.2. Other information

Information with regard to physical hazard classes

Explosives

Explosion hazard: Based on the chemical structure there is no indication of explosive properties.

Impact sensitivity: Based on the chemical structure there is no shock-sensitivity.

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Oxidizing properties

Fire promoting properties: Based on its structural properties the product is not classified as oxidizing.

Pyrophoric properties

Self-ignition temperature: Test type: Spontaneous self-ignition at room-temperature.

Based on its structural properties the product is not classified as self-igniting.

Self-heating substances and mixtures

Self heating ability: not applicable, the product is a liquid

Substances and mixtures, which emit flammable gases in contact with water

Formation of flammable gases:

Forms no flammable gases in the presence of water.

Corrosion to metals

No corrosive effect on metal.

Other safety characteristics

pKA:

The substance does not dissociate.

Adsorption/water - soil:

KOC: 70,79; log KOC: 1,85 (calculated)

Surface tension:

Based on chemical structure, surface activity is not to be expected.

Molar mass:

154,25 g/mol

Evaporation rate:

Value can be approximated from Henry's Law Constant or vapor pressure.

SECTION 10: Stability and Reactivity

10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals: No corrosive effect on metal.

Formation of

Remarks:

flammable gases:

Forms no flammable gases in the presence of water.

10.2. Chemical stability

The product is stable if stored and handled as prescribed/indicated.

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10.3. Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated.

10.4. Conditions to avoid

See SDS section 7 - Handling and storage.

10.5. Incompatible materials

Substances to avoid:

strong oxidizing agents, acids, bases

10.6. Hazardous decomposition products

Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

SECTION 11: Toxicological Information

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

Acute toxicity

Assessment of acute toxicity:

| Of low toxicity after single ingestion. Virtually nontoxic after a single skin contact.

Experimental/calculated data:

| LD50 rat (oral): 3.600 mg/kg

| LD50 rabbit (dermal): > 5.000 mg/kg (other)

Irritation

Assessment of irritating effects:

| Skin contact causes irritation. May cause severe damage to the eyes.

Experimental/calculated data:

Skin corrosion/irritation

| rabbit: Irritant. (OECD Guideline 404)

Serious eye damage/irritation

| rabbit: irreversible damage (OECD Guideline 405)

Respiratory/Skin sensitization

Assessment of sensitization:

| Sensitization after skin contact possible.

Experimental/calculated data:

| mouse: skin sensitizing (OECD Guideline 429)

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Germ cell mutagenicity

Assessment of mutagenicity:

The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition. Results from a number of mutagenicity studies with microorganisms, mammalian cell culture and mammals are available. Taking into account all of the information, there is no indication that the substance is mutagenic.

Carcinogenicity

Assessment of carcinogenicity:

In long-term animal studies in which the substance was given by gavage in high doses, a carcinogenic effect was not observed. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Reproductive toxicity

Assessment of reproduction toxicity:

Animal studies gave no indication of a fertility impairing effect at doses which were not toxic to the parental animals. Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

Developmental toxicity

Assessment of teratogenicity:

In animal studies the substance did not cause malformations.

Specific target organ toxicity (single exposure)

Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

No substance-specific organotoxicity was observed after repeated administration to animals. After repeated exposure the prominent effect is local irritation.

Aspiration hazard

No aspiration hazard expected.

Interactive effects

No data available.

11.2. Information on other hazards

Endocrine disrupting properties

The substance is not identified to have endocrine disrupting properties according to Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 nor is included in the Candidate List of

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substances of very high concern according to EU REACH Article 59 for having endocrine disrupting properties.

SECTION 12: Ecological Information

12.1. Toxicity

Assessment of aquatic toxicity:

Acutely harmful for aquatic organisms. Depending on local conditions and existing concentrations, disturbances in the biodegradation process of activated sludge are possible.

Toxicity to fish:

LC50 (96 h) approx. 22 mg/l, *Brachydanio rerio* (OECD 203; ISO 7346; 84/449/EWG, C.1, static)
The details of the toxic effect relate to the nominal concentration.

Aquatic invertebrates:

EC50 (48 h) 10,8 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, static)
The statement of the toxic effect relates to the analytically determined concentration. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Aquatic plants:

EC50 (72 h) 13,1 mg/l (growth rate), *Desmodesmus subspicatus* (OECD Guideline 201, static)
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. The statement of the toxic effect relates to the analytically determined concentration.

Microorganisms/Effect on activated sludge:

EC50 (30 min) 70 mg/l, activated sludge, domestic (DIN EN ISO 8192-OECD 209-88/302/EEC, P. C, aerobic)

EC10 (16 h) 2.544 mg/l, *Pseudomonas putida* (DIN 38412 Part 8, aquatic)

The details of the toxic effect relate to the nominal concentration.

Chronic toxicity to fish:

Study scientifically not justified.

Chronic toxicity to aquatic invertebrates:

Study scientifically not justified.

Assessment of terrestrial toxicity:

No data available.

Study scientifically not justified.

12.2. Persistence and degradability

Assessment biodegradation and elimination (H₂O):

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| Readily biodegradable (according to OECD criteria).

Elimination information:

| 90 - 100 % DOC reduction (3 d) (OECD 301 A (new version)) (aerobic, activated sludge, domestic)

Assessment of stability in water:

| According to structural properties, hydrolysis is not expected/probable.

12.3. Bioaccumulative potential

Assessment bioaccumulation potential:

| Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

12.4. Mobility in soil

Assessment transport between environmental compartments:

Volatility: The substance will slowly evaporate into the atmosphere from the water surface.

Adsorption in soil: Adsorption to solid soil phase is not expected.

12.5. Results of PBT and vPvB assessment

| According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not fulfill the criteria for PBT (Persistent/bioaccumulative/toxic) and vPvB (very persistent/very bioaccumulative). Self classification

12.6. Endocrine disrupting properties

| The substance is not identified to have endocrine disrupting properties according to Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 nor is included in the Candidate List of substances of very high concern according to EU REACH Article 59 for having endocrine disrupting properties.

12.7. Other adverse effects

| The substance is not listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Observe national and local legal requirements.

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SECTION 14: Transport Information

Land transport

ADR

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

RID

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

Inland waterway transport

ADN

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user:	None known

Transport in inland waterway vessel

Not evaluated

Sea transport

IMDG

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	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

Air transport

IATA/ICAO

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

14.1. UN number or ID number

See corresponding entries for "UN number or ID number" for the respective regulations in the tables above.

14.2. UN proper shipping name

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

14.3. Transport hazard class(es)

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

14.4. Packing group

See corresponding entries for "Packing group" for the respective regulations in the tables above.

14.5. Environmental hazards

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

14.6. Special precautions for user

See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

14.7. Maritime transport in bulk according to IMO instruments

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Maritime transport in bulk is not intended.

SECTION 15: Regulatory Information

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

Prohibitions, Restrictions and Authorizations

Annex XVII of Regulation (EC) No 1907/2006: Number on List: 3, 75

Directive 2012/18/EU - Control of Major Accident Hazards involving dangerous substances (EU):

Listed in above regulation: no

Classification applies for standard conditions of temperature and pressure.

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

15.2. Chemical Safety Assessment

Chemical Safety Assessment performed

SECTION 16: Other Information

Assessment of the hazard classes according to UN GHS criteria (most recent version)

Acute Tox. 5 (oral)

Skin Corr./Irrit. 2

Eye Dam./Irrit. 1

Aquatic Acute 3

Skin Sens. 1

Any other intended applications should be discussed with the manufacturer. Corresponding occupational protection measurements must be followed.

Full text of the classifications, including the hazard classes and the hazard statements, if mentioned in section 2 or 3:

Skin Corr./Irrit.	Skin corrosion/irritation
Eye Dam./Irrit.	Serious eye damage/eye irritation
Skin Sens.	Skin sensitization
H318	Causes serious eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.

Abbreviations

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ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road.
ADN = The European Agreement concerning the International Carriage of Dangerous Goods by Inland waterways. ATE = Acute Toxicity Estimates. CAO = Cargo Aircraft Only. CAS = Chemical Abstract Service. CLP = Classification, Labelling and Packaging of substances and mixtures. DIN = German national organization for standardization. DNEL = Derived No Effect Level. EC50 = Effective concentration median for 50% of the population. EC = European Community. EN = European Standards. IARC = International Agency for Research on Cancer. IATA = International Air Transport Association. IBC-Code = Intermediate Bulk Container code. IMDG = International Maritime Dangerous Goods Code. ISO = International Organization for Standardization. STEL = Short-Term Exposure Limit. LC50 = Lethal concentration median for 50% of the population. LD50 = Lethal dose median for 50% of the population. TLV = Threshold Limit Value. MARPOL = The International Convention for the Prevention of Pollution from Ships. NEN = Dutch Norm. NOEC = No Observed Effect Concentration. OEL = Occupational Exposure Limit. OECD = Organization for Economic Cooperation and Development. PBT = Persistent, Bioaccumulative and Toxic. PNEC = Predicted No Effect Level. PPM = Parts per million. RID = The European Agreement concerning the International Carriage of Dangerous Goods by Rail. TWA = Time Weight Average. UN-number = UN number at transport. vPvB = very Persistent and very Bioaccumulative.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

Vertical lines in the left hand margin indicate an amendment from the previous version.

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Annex: Exposure Scenarios

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1. Short title of exposure scenario

Compounding, (use in industrial settings)

F; ERC2; PROC1, PROC3, PROC5, PROC8a, PROC8b, PROC9, PROC15

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC2: Formulation into mixture
Operational conditions	
Annual amount per site	180.000 kg
Minimum emission days per year	250
Emission factor air	2,5 %
Emission factor water	0,2 %

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Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,915315
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	786,6 kg/d
Risk from environmental exposure is driven by soil.	

Contributing exposure scenario	
Use descriptors covered	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial
Operational conditions	
Concentration of the substance	geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,00796 Pa
Duration and Frequency of activity	60 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
Risk Management Measures	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Avoid splashing. Avoid frequent and direct contact with substance. Ensure minimization of manual phases	
Wear chemically resistant gloves in combination with 'basic' employee training.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker

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	Worker - dermal, long-term - systemic
Exposure estimate	0,0069 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,001633
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,002 mg/cm ² /day
Risk Characterization Ratio (RCR)	0,000169
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,0129 mg/m ³
Risk Characterization Ratio (RCR)	0,001089
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: industrial
Operational conditions	
Concentration of the substance	geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,00796 Pa
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
Risk Management Measures	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Avoid splashing. Avoid frequent and direct contact with substance. Ensure minimization of manual phases	
Wear chemically resistant gloves in combination with 'basic' employee training.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,1371 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,032653
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker

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	Worker - dermal, long-term - local
Exposure estimate	0,04 mg/cm ² /day
Risk Characterization Ratio (RCR)	0,00339
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,3856 mg/m ³
Risk Characterization Ratio (RCR)	0,03268
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC5: Mixing or blending in batch processes Use domain: industrial
Operational conditions	
Concentration of the substance	geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,00796 Pa
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
Risk Management Measures	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Avoid splashing. Avoid frequent and direct contact with substance. Ensure minimization of manual phases	
Wear chemically resistant gloves in combination with 'basic' employee training.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	2,7429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,653061
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,4 mg/cm ² /day
Risk Characterization Ratio (RCR)	0,033898
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,3856 mg/m ³
Risk Characterization Ratio (RCR)	0,03268

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Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
Operational conditions	
Concentration of the substance	geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol Content: >= 0 % - <= 25 %
Physical state	liquid
Vapour pressure of the substance during use	0,00796 Pa
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
Assumes activities are at ambient temperature.	
Risk Management Measures	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Avoid splashing. Avoid frequent and direct contact with substance. Ensure minimization of manual phases	
Wear chemically resistant gloves in combination with 'basic' employee training.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1,6457 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,391837
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,12 mg/cm ² /day
Risk Characterization Ratio (RCR)	0,010169
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,2314 mg/m ³
Risk Characterization Ratio (RCR)	0,019608
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or mixture (charging and

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	discharging) at dedicated facilities Use domain: industrial
Operational conditions	
Concentration of the substance	geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	0,00796 Pa
Duration and Frequency of activity	60 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
Risk Management Measures	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Avoid splashing. Avoid frequent and direct contact with substance. Ensure minimization of manual phases	
Wear chemically resistant gloves in combination with 'basic' employee training.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	2,7429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,653061
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm ² /day
Risk Characterization Ratio (RCR)	0,016949
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,1285 mg/m ³
Risk Characterization Ratio (RCR)	0,010893
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	
Contributing exposure scenario	
Use descriptors covered	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
Operational conditions	
Concentration of the substance	geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol Content: $\geq 0\%$ - $\leq 25\%$

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Physical state	liquid
Vapour pressure of the substance during use	0,00796 Pa
Duration and Frequency of activity	60 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
Risk Management Measures	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Avoid splashing. Avoid frequent and direct contact with substance. Ensure minimization of manual phases	
Wear chemically resistant gloves in combination with 'basic' employee training.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,8229 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,195918
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,12 mg/cm ² /day
Risk Characterization Ratio (RCR)	0,010169
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,0771 mg/m ³
Risk Characterization Ratio (RCR)	0,006536
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC15: Use a laboratory reagent. Use domain: industrial
Operational conditions	
Concentration of the substance	geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,00796 Pa
Duration and Frequency of activity	15 min 5 days per week
Indoor/Outdoor	Indoor

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	Assumes activities are at ambient temperature.
Risk Management Measures	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Avoid splashing. Avoid frequent and direct contact with substance. Ensure minimization of manual phases	
Wear chemically resistant gloves in combination with 'basic' employee training.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,0686 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,016327
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,02 mg/cm ² /day
Risk Characterization Ratio (RCR)	0,001695
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,0643 mg/m ³
Risk Characterization Ratio (RCR)	0,005447
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

2. Short title of exposure scenario

Formulation, (use in industrial settings)

F; ERC2; PROC1, PROC3, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC15

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	AISE SPERC 2.1.a.v2: AISE SPERC 2.1.a.v2
Operational conditions	
Annual amount used in the EU	383.000 kg
Minimum emission days per year	250
Emission factor air	0 %
Emission factor water	0,01 %

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Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Wastewater treatment measures considered suitable are, e.g.	Precipitation, Coagulation, Must be eliminated from water by chemical flocculation.
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,153308
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	9.993 kg/d
Risk from environmental exposure is driven by soil.	

Contributing exposure scenario	
Use descriptors covered	AISE SPERC 2.1.b.v2: AISE SPERC 2.1.b.v2
Operational conditions	
Annual amount used in the EU	153.000 kg
Minimum emission days per year	250
Emission factor air	0 %
Emission factor water	0,1 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Wastewater treatment measures considered suitable are, e.g.	Precipitation, Coagulation, Must be eliminated from water by chemical flocculation.
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d

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Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,402068
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	1.522,1 kg/d
Risk from environmental exposure is driven by soil.	

Contributing exposure scenario	
Use descriptors covered	AISE SPERC 2.1.c.v2: AISE SPERC 2.1.c.v2
Operational conditions	
Annual amount used in the EU	119.000 kg
Minimum emission days per year	250
Emission factor air	0 %
Emission factor water	0,2 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100

Risk Management Measures	
Wastewater treatment measures considered suitable are, e.g.	Precipitation, Coagulation, Must be eliminated from water by chemical flocculation.
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,558221
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	806,1 kg/d
Risk from environmental exposure is driven by soil.	

Contributing exposure scenario	
Use descriptors covered	AISE SPERC 2.1.j.v2: AISE SPERC 2.1.j.v2
Operational conditions	
Annual amount used in the EU	111.000 kg

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Minimum emission days per year	250
Emission factor air	0 %
Emission factor water	0,1 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100

Risk Management Measures

Wastewater treatment measures considered suitable are, e.g.	Nanofiltration (NR), Ultrafiltration (UF) or Reverse Osmosis (OR), Coagulation, Must be eliminated from water by chemical flocculation.
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d

Exposure estimate and reference to its source

Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,310979
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	1.427,8 kg/d
Risk from environmental exposure is driven by soil.	

Contributing exposure scenario

Use descriptors covered	AISE SPERC 2.1.k.v2: AISE SPERC 2.1.k.v2
<i>Operational conditions</i>	
Annual amount used in the EU	60.000 kg
Minimum emission days per year	250
Emission factor air	0 %
Emission factor water	0,2 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10

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Dilution factor coast	100
Risk Management Measures	
Wastewater treatment measures considered suitable are, e.g.	Nanofiltration (NR), Ultrafiltration (UF) or Reverse Osmosis (OR), Coagulation, Must be eliminated from water by chemical flocculation.
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,330498
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	726,2 kg/d
Risk from environmental exposure is driven by soil.	

Contributing exposure scenario	
Use descriptors covered	AISE SPERC 2.1.I.v2: AISE SPERC 2.1.I.v2
Operational conditions	
Annual amount used in the EU	60.000 kg
Minimum emission days per year	250
Emission factor air	0 %
Emission factor water	0,4 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Wastewater treatment measures considered suitable are, e.g.	Nanofiltration (NR), Ultrafiltration (UF) or Reverse Osmosis (OR), Coagulation, Must be eliminated from water by chemical flocculation.
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	

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Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,590753
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	406,3 kg/d
Risk from environmental exposure is driven by soil.	

Contributing exposure scenario	
Use descriptors covered	ERC2: Formulation into mixture
Operational conditions	
Annual amount used in the EU	170.000 kg
Minimum emission days per year	250
Emission factor air	0 %
Emission factor water	0 %
Emission factor soil	0,01 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,070243
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	9.680,7 kg/d
Risk from environmental exposure is driven by soil.	

Contributing exposure scenario	
Use descriptors covered	ERC2: Formulation into mixture
Operational conditions	
Annual amount used in the EU	17.000 kg
Minimum emission days per year	250
Emission factor air	0 %

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Emission factor water	2 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,807632
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	84,2 kg/d
Risk from environmental exposure is driven by soil.	

Contributing exposure scenario	
Use descriptors covered	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial
Operational conditions	
Concentration of the substance	geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol Content: >= 0 % - <= 25 %
Physical state	liquid
Vapour pressure of the substance during use	0,00796 Pa
Duration and Frequency of activity	60 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
Risk Management Measures	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Avoid splashing. Avoid frequent and direct contact with substance. Ensure minimization of manual phases	
Wear chemically resistant gloves in combination with 'basic' employee training.	

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Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,0041 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,00098
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,0012 mg/cm ² /day
Risk Characterization Ratio (RCR)	0,000102
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,0077 mg/m ³
Risk Characterization Ratio (RCR)	0,000654
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: industrial
Operational conditions	
Concentration of the substance	geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol Content: >= 0 % - <= 25 %
Physical state	liquid
Vapour pressure of the substance during use	0,00796 Pa
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
Risk Management Measures	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Avoid splashing. Avoid frequent and direct contact with substance. Ensure minimization of manual phases	
Wear chemically resistant gloves in combination with 'basic' employee training.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic

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Exposure estimate	0,0823 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,019592
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,024 mg/cm ² /day
Risk Characterization Ratio (RCR)	0,002034
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,2314 mg/m ³
Risk Characterization Ratio (RCR)	0,019608
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC5: Mixing or blending in batch processes Use domain: industrial
Operational conditions	
Concentration of the substance	geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol Content: >= 0 % - <= 25 %
Physical state	liquid
Vapour pressure of the substance during use	0,00796 Pa
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
Risk Management Measures	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Avoid splashing. Avoid frequent and direct contact with substance. Ensure minimization of manual phases	
Wear chemically resistant gloves in combination with 'basic' employee training.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1,6457 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,391837
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,24 mg/cm ² /day
Risk Characterization Ratio (RCR)	0,020339
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker

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	Worker - inhalation, long-term - systemic
Exposure estimate	0,2314 mg/m ³
Risk Characterization Ratio (RCR)	0,019608
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	<p>PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities</p> <p>The registered substance is classified as Skin Sens. 1 or 1B. The registered substance is classified as Skin Irrit. 2. The registered substance is classified as Eye Dam. 1. The corresponding cut-off according to CLP indicating the concentration above which the substance must be taken into account for the purpose of classification is <1%. The indicated concentration limit represents the lowest relevant cut-off value. Therefore, in accordance with Article 14 (2 a-b) of the REACH regulation (EC) No. 1907/2006, exposure estimation and risk characterization need not to be performed as the preparations used in this product category contain less than the corresponding cut-off concentration.</p>

Contributing exposure scenario	
Use descriptors covered	<p>PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities</p> <p>Use domain: industrial</p>
Operational conditions	
Concentration of the substance	geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol Content: >= 0 % - <= 25 %
Physical state	liquid
Vapour pressure of the substance during use	0,00796 Pa
Duration and Frequency of activity	60 min 5 days per week
Indoor/Outdoor	Indoor
Assumes activities are at ambient temperature.	
Risk Management Measures	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Avoid splashing. Avoid frequent and direct contact with substance. Ensure minimization of manual phases	
Wear chemically resistant gloves in combination with 'basic' employee	

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training.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1,6457 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,391837
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,12 mg/cm ² /day
Risk Characterization Ratio (RCR)	0,010169
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,0771 mg/m ³
Risk Characterization Ratio (RCR)	0,006536
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	<p>PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). The registered substance is classified as Skin Sens. 1 or 1B. The registered substance is classified as Skin Irrit. 2. The registered substance is classified as Eye Dam. 1. The corresponding cut-off according to CLP indicating the concentration above which the substance must be taken into account for the purpose of classification is <1%. The indicated concentration limit represents the lowest relevant cut-off value. Therefore, in accordance with Article 14 (2 a-b) of the REACH regulation (EC) No. 1907/2006, exposure estimation and risk characterization need not to be performed as the preparations used in this product category contain less than the corresponding cut-off concentration.</p>

Contributing exposure scenario	
Use descriptors covered	<p>PROC14: Tableting, compression, extrusion, pelletisation, granulation The registered substance is classified as Skin Sens. 1 or 1B. The registered substance is classified as Skin Irrit. 2. The registered substance is classified as Eye Dam. 1. The corresponding cut-off according to CLP indicating the concentration above which the substance must be taken into account for the purpose of classification is <1%. The indicated concentration limit represents the lowest relevant cut-off value. Therefore, in accordance with Article 14 (2 a-b) of the REACH regulation (EC) No. 1907/2006, exposure</p>

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	estimation and risk characterization need not to be performed as the preparations used in this product category contain less than the corresponding cut-off concentration.
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Contributing exposure scenario	
Use descriptors covered	PROC15: Use a laboratory reagent. Use domain: industrial
Operational conditions	
Concentration of the substance	geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol Content: >= 0 % - <= 25 %
Physical state	liquid
Vapour pressure of the substance during use	0,00796 Pa
Duration and Frequency of activity	15 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
Risk Management Measures	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Avoid splashing. Avoid frequent and direct contact with substance. Ensure minimization of manual phases	
Wear chemically resistant gloves in combination with 'basic' employee training.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,0411 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,009796
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,012 mg/cm²/day
Risk Characterization Ratio (RCR)	0,001017
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,0386 mg/m³
Risk Characterization Ratio (RCR)	0,003268
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

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3. Short title of exposure scenario

Use as an intermediate, (use in industrial settings)

IS; ERC6a; PROC1, PROC2, PROC3, PROC8b, PROC9, PROC15

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC6a: Use of intermediate No assessment required - Industrial use as intermediate under strictly controlled conditions
Operational conditions	
Contributing exposure scenario	
Use descriptors covered	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. No assessment required - Industrial use as intermediate under strictly controlled conditions
Contributing exposure scenario	
Use descriptors covered	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions No assessment required - Industrial use as intermediate under strictly controlled conditions
Contributing exposure scenario	
Use descriptors covered	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition No assessment required - Industrial use as intermediate under strictly controlled conditions
Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities No assessment required - Industrial use as intermediate under strictly controlled conditions
Contributing exposure scenario	
Use descriptors covered	PROC9: Transfer of substance or preparation into small

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	containers (dedicated filling line, including weighing). No assessment required - Industrial use as intermediate under strictly controlled conditions
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Contributing exposure scenario	
Use descriptors covered	PROC15: Use a laboratory reagent. No assessment required - Industrial use as intermediate under strictly controlled conditions

4. Short title of exposure scenario

Use in polishes, wax blends, washing and cleaning products, (use in professional settings)

PW; ERC8a; PROC1, PROC3, PROC4, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC19

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC8a: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
Operational conditions	
Annual amount used in the EU	850.000 kg
Minimum emission days per year	365
Emission factor air	100 %
Emission factor water	100 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,322773
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	1,4

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	kg/d
Risk from environmental exposure is driven by soil.	

Contributing exposure scenario	
Use descriptors covered	<p>PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.</p> <p>The registered substance is classified as Skin Sens. 1 or 1B. The registered substance is classified as Skin Irrit. 2. The registered substance is classified as Eye Dam. 1. The corresponding cut-off according to CLP indicating the concentration above which the substance must be taken into account for the purpose of classification is <1%. The indicated concentration limit represents the lowest relevant cut-off value. Therefore, in accordance with Article 14 (2 a-b) of the REACH regulation (EC) No. 1907/2006, exposure estimation and risk characterization need not to be performed as the preparations used in this product category contain less than the corresponding cut-off concentration.</p>

Contributing exposure scenario	
Use descriptors covered	<p>PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition</p> <p>The registered substance is classified as Skin Sens. 1 or 1B. The registered substance is classified as Skin Irrit. 2. The registered substance is classified as Eye Dam. 1. The corresponding cut-off according to CLP indicating the concentration above which the substance must be taken into account for the purpose of classification is <1%. The indicated concentration limit represents the lowest relevant cut-off value. Therefore, in accordance with Article 14 (2 a-b) of the REACH regulation (EC) No. 1907/2006, exposure estimation and risk characterization need not to be performed as the preparations used in this product category contain less than the corresponding cut-off concentration.</p>

Contributing exposure scenario	
Use descriptors covered	<p>PROC4: Chemical production where opportunity for exposure arises</p> <p>The registered substance is classified as Skin Sens. 1 or 1B. The registered substance is classified as Skin Irrit. 2. The registered substance is classified as Eye Dam. 1. The corresponding cut-off according to CLP indicating the</p>

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	concentration above which the substance must be taken into account for the purpose of classification is <1%. The indicated concentration limit represents the lowest relevant cut-off value. Therefore, in accordance with Article 14 (2 a-b) of the REACH regulation (EC) No. 1907/2006, exposure estimation and risk characterization need not to be performed as the preparations used in this product category contain less than the corresponding cut-off concentration.
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Contributing exposure scenario

Use descriptors covered	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities The registered substance is classified as Skin Sens. 1 or 1B. The registered substance is classified as Skin Irrit. 2. The registered substance is classified as Eye Dam. 1. The corresponding cut-off according to CLP indicating the concentration above which the substance must be taken into account for the purpose of classification is <1%. The indicated concentration limit represents the lowest relevant cut-off value. Therefore, in accordance with Article 14 (2 a-b) of the REACH regulation (EC) No. 1907/2006, exposure estimation and risk characterization need not to be performed as the preparations used in this product category contain less than the corresponding cut-off concentration.
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Contributing exposure scenario

Use descriptors covered	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities The registered substance is classified as Skin Sens. 1 or 1B. The registered substance is classified as Skin Irrit. 2. The registered substance is classified as Eye Dam. 1. The corresponding cut-off according to CLP indicating the concentration above which the substance must be taken into account for the purpose of classification is <1%. The indicated concentration limit represents the lowest relevant cut-off value. Therefore, in accordance with Article 14 (2 a-b) of the REACH regulation (EC) No. 1907/2006, exposure estimation and risk characterization need not to be performed as the preparations used in this product category contain less than the corresponding cut-off concentration.
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Contributing exposure scenario

Use descriptors covered	PROC10: Roller application or brushing The registered substance is classified as Skin Sens. 1 or
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	<p>1B. The registered substance is classified as Skin Irrit. 2. The registered substance is classified as Eye Dam. 1. The corresponding cut-off according to CLP indicating the concentration above which the substance must be taken into account for the purpose of classification is <1%. The indicated concentration limit represents the lowest relevant cut-off value. Therefore, in accordance with Article 14 (2 a-b) of the REACH regulation (EC) No. 1907/2006, exposure estimation and risk characterization need not to be performed as the preparations used in this product category contain less than the corresponding cut-off concentration.</p>
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Contributing exposure scenario

Use descriptors covered	<p>PROC11: Non industrial spraying</p> <p>The registered substance is classified as Skin Sens. 1 or 1B. The registered substance is classified as Skin Irrit. 2. The registered substance is classified as Eye Dam. 1. The corresponding cut-off according to CLP indicating the concentration above which the substance must be taken into account for the purpose of classification is <1%. The indicated concentration limit represents the lowest relevant cut-off value. Therefore, in accordance with Article 14 (2 a-b) of the REACH regulation (EC) No. 1907/2006, exposure estimation and risk characterization need not to be performed as the preparations used in this product category contain less than the corresponding cut-off concentration.</p>
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Contributing exposure scenario

Use descriptors covered	<p>PROC13: Treatment of articles by dipping and pouring.</p> <p>The registered substance is classified as Skin Sens. 1 or 1B. The registered substance is classified as Skin Irrit. 2. The registered substance is classified as Eye Dam. 1. The corresponding cut-off according to CLP indicating the concentration above which the substance must be taken into account for the purpose of classification is <1%. The indicated concentration limit represents the lowest relevant cut-off value. Therefore, in accordance with Article 14 (2 a-b) of the REACH regulation (EC) No. 1907/2006, exposure estimation and risk characterization need not to be performed as the preparations used in this product category contain less than the corresponding cut-off concentration.</p>
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Contributing exposure scenario

Use descriptors covered	PROC19: Manual activities involving hand contact
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	<p>The registered substance is classified as Skin Sens. 1 or 1B. The registered substance is classified as Skin Irrit. 2. The registered substance is classified as Eye Dam. 1. The corresponding cut-off according to CLP indicating the concentration above which the substance must be taken into account for the purpose of classification is <1%. The indicated concentration limit represents the lowest relevant cut-off value. Therefore, in accordance with Article 14 (2 a-b) of the REACH regulation (EC) No. 1907/2006, exposure estimation and risk characterization need not to be performed as the preparations used in this product category contain less than the corresponding cut-off concentration.</p>
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5. Short title of exposure scenario

Use in polishes, wax blends, washing and cleaning products, (consumer use)
C; ERC8a; PC31, PC35

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC8a: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
Operational conditions	
Annual amount used in the EU	850.000 kg
Minimum emission days per year	365
Emission factor air	100 %
Emission factor water	100 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	

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Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,322773
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	1,4 kg/d
Risk from environmental exposure is driven by soil.	

Contributing exposure scenario	
Use descriptors covered	PC31: Polishes and Wax Blends. The registered substance is classified as Skin Sens. 1 or 1B. The registered substance is classified as Skin Irrit. 2. The registered substance is classified as Eye Dam. 1. The corresponding cut-off according to CLP indicating the concentration above which the substance must be taken into account for the purpose of classification is <1%. The indicated concentration limit represents the lowest relevant cut-off value. Therefore, in accordance with Article 14 (2 a-b) of the REACH regulation (EC) No. 1907/2006, exposure estimation and risk characterization need not to be performed as the preparations used in this product category contain less than the corresponding cut-off concentration.
Operational conditions	
Vapour pressure of the substance during use	0,00796 Pa

Contributing exposure scenario	
Use descriptors covered	PC35: Washing and Cleaning Products (including solvent based products). The registered substance is classified as Skin Sens. 1 or 1B. The registered substance is classified as Skin Irrit. 2. The registered substance is classified as Eye Dam. 1. The corresponding cut-off according to CLP indicating the concentration above which the substance must be taken into account for the purpose of classification is <1%. The indicated concentration limit represents the lowest relevant cut-off value. Therefore, in accordance with Article 14 (2 a-b) of the REACH regulation (EC) No. 1907/2006, exposure estimation and risk characterization need not to be performed as the preparations used in this product category contain less than the corresponding cut-off concentration.
Operational conditions	
Vapour pressure of the substance during use	0,00796 Pa

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6. Short title of exposure scenario

Use in/as Air care products, (consumer use)

C; ERC8a; PC3

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC8a: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
Operational conditions	
Annual amount used in the EU	850.000 kg
Minimum emission days per year	365
Emission factor air	100 %
Emission factor water	100 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,322773
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	1,4 kg/d
Risk from environmental exposure is driven by soil.	
Contributing exposure scenario	
Use descriptors covered	PC3: Air care products. The registered substance is classified as Skin Sens. 1 or 1B. The registered substance is classified as Skin Irrit. 2. The registered substance is classified as Eye Dam. 1. The corresponding cut-off according to CLP indicating the concentration above which the substance must be taken into account for the purpose of classification is <1%. The

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	indicated concentration limit represents the lowest relevant cut-off value. Therefore, in accordance with Article 14 (2 a-b) of the REACH regulation (EC) No. 1907/2006, exposure estimation and risk characterization need not to be performed as the preparations used in this product category contain less than the corresponding cut-off concentration.
Operational conditions	
Vapour pressure of the substance during use	0,00796 Pa

7. Short title of exposure scenario

Use as fragrance in biocidal products, (consumer use)

C; ERC8a; PC8

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC8a: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
Operational conditions	
Annual amount used in the EU	850.000 kg
Minimum emission days per year	365
Emission factor air	100 %
Emission factor water	100 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,322773
Risk from environmental exposure is driven by soil.	

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Maximum amount of safe use	1,4 kg/d
Risk from environmental exposure is driven by soil.	

Contributing exposure scenario	
Use descriptors covered	PC8: Biocidal Products. The registered substance is classified as Skin Sens. 1 or 1B. The registered substance is classified as Skin Irrit. 2. The registered substance is classified as Eye Dam. 1. The corresponding cut-off according to CLP indicating the concentration above which the substance must be taken into account for the purpose of classification is <1%. The indicated concentration limit represents the lowest relevant cut-off value. Therefore, in accordance with Article 14 (2 a-b) of the REACH regulation (EC) No. 1907/2006, exposure estimation and risk characterization need not to be performed as the preparations used in this product category contain less than the corresponding cut-off concentration.
Operational conditions	
Vapour pressure of the substance during use	0,00796 Pa

8. Short title of exposure scenario

Use in cosmetics, (consumer use)

C; ERC8a; PC28, PC39

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC8a: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
Operational conditions	
Annual amount used in the EU	850.000 kg
Minimum emission days per year	365
Emission factor air	100 %
Emission factor water	100 %
Emission factor soil	0 %

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Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,322773
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	1,4 kg/d
Risk from environmental exposure is driven by soil.	

Contributing exposure scenario	
Use descriptors covered	PC28: Perfumes, Fragrances. In accordance to the Article 14 (5b) of the REACH Regulation (EC) No 1907/2006, exposure estimation and risk characterisation needs not to be performed for end uses in cosmetic products within the scope of Directive EC 1223/2009.
Operational conditions	
Vapour pressure of the substance during use	0,00796 Pa

Contributing exposure scenario	
Use descriptors covered	PC39: Cosmetics, personal care products. In accordance to the Article 14 (5b) of the REACH Regulation (EC) No 1907/2006, exposure estimation and risk characterisation needs not to be performed for end uses in cosmetic products within the scope of Directive EC 1223/2009.
Operational conditions	
Vapour pressure of the substance during use	0,00796 Pa
