

# Safety data sheet

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BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from time to time.

Date / Revised: 26.08.2024

Version: 11.0

Date / Previous version: 30.08.2022

Previous version: 10.0

Product: **Nerolidol**

(ID no. 30034996/SDS\_GEN\_GB/EN)

Date of print 14.10.2025

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

### 1.1. Product identifier

#### Nerolidol

Chemical name: 3,7,11-Trimethyldodeca-1,6,10-trien-3-ol,mixed isomers

CAS Number: 7212-44-4

REACH registration number: 01-2119457636-29-0000

### 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 plc  
4th and 5th Floors, 2 Stockport Exchange  
Railway Road, Stockport, SK1 3GG  
UNITED KINGDOM

Telephone: +44 161 475 3000

E-mail address: product-safety-uk-and-ireland@basf.com

### 1.4. Emergency telephone number

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 GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

Eye Dam./Irrit. 2	H319 Causes serious eye irritation.
Skin Sens. 1B	H317 May cause an allergic skin reaction.
Aquatic Acute 1	H400 Very toxic to aquatic life.
Aquatic Chronic 1	H410 Very toxic to aquatic life with long lasting effects.

M-factor acute: 1

M-factor chronic: 1

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 GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

Pictogram:



Signal Word:

Warning

Hazard Statement:

H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P280	Wear protective gloves and eye protection or face protection.
P273	Avoid release to the environment.
P261	Avoid breathing mist or vapour or 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.
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 GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

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## SECTION 3: Composition/Information on Ingredients

### 3.1. Substances

#### Chemical nature

3,7,11-Trimethyldodeca-1,6,10-trien-3-ol,mixed isomers

CAS Number: 7212-44-4

EC-Number: 230-597-5

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

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## 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.

On skin contact:

Wash thoroughly with soap and water

On contact with eyes:

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

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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

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

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

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## **SECTION 5: Fire-Fighting Measures**

### **5.1. Extinguishing media**

Suitable extinguishing media:  
carbon dioxide, dry powder, foam

Unsuitable extinguishing media for safety reasons:  
water

### **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 a self-contained breathing apparatus.

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.

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## **SECTION 6: Accidental Release Measures**

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

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

### **6.2. Environmental precautions**

Do not discharge into drains/surface waters/groundwater. Inform authorities in the event of product spillage to water courses or sewage systems.

### **6.3. Methods and material for containment and cleaning up**

For small amounts: Contain with absorbent material (e.g. sand, silica gel, acid binder, general purpose binder, sawdust).

For large amounts: Dike spillage. Pump off product.

Dispose of absorbed material in accordance with regulations.

### **6.4. Reference to other sections**

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

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## 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.

Protection against fire and explosion:

Take precautionary measures against static discharges. Avoid all sources of ignition: heat, sparks, open flame.

### 7.2. Conditions for safe storage, including any incompatibilities

Further information on storage conditions: Keep at temperature not exceeding 50°C. Keep in a cool, well-ventilated place. Keep container tightly closed and dry.

### 7.3. Specific end use(s)

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

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## SECTION 8: Exposure Controls/Personal Protection

### 8.1. Control parameters

#### Components with occupational exposure limits

No substance specific occupational exposure limits known.

#### PNEC

freshwater: 0.00051 mg/l

marine water: 0.00005 mg/l

intermittent release: 0.0051 mg/l

sediment (freshwater): 0.0698 mg/kg

sediment (marine water): 0.00698 mg/kg

soil: 0.0136 mg/kg

STP: 10 mg/l

#### DNEL

worker:

Long-term exposure- systemic effects, Inhalation: 10 mg/m<sup>3</sup>

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worker:

Long-term exposure- systemic effects, dermal: 2.8 mg/kg bw/day

consumer:

Long-term exposure- systemic effects, Inhalation: 2.9 mg/m<sup>3</sup>

consumer:

Long-term exposure- systemic effects, dermal: 1.7 mg/kg bw/day

consumer:

Long-term exposure- systemic effects, oral: 0.8 mg/kg bw/day

worker:

Long-term exposure - local effects, dermal: 122.5 µg/cm<sup>2</sup>

consumer:

Long-term exposure - local effects, dermal: 122.5 µg/cm<sup>2</sup>

## 8.2. Exposure controls

### Personal protective equipment

Respiratory protection:

Suitable respiratory protection for higher concentrations or long-term effect: Gas filter for gases/vapours of organic compounds (boiling point >65 °C, e. g. EN 14387 Type A)

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. 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:

Safety glasses with side-shields (frame 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).

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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. Avoid contact with the skin, eyes and clothing. Wearing of closed work clothing is recommended. 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.

#### Environmental exposure controls

Do not discharge product into the environment without control.

## SECTION 9: Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

Form:	liquid	
Colour:	colourless to yellow	
Odour:	flowery	
Odour threshold:	< 100 ppm	
pH value:	6.3	
	(14.1 mg/l, 20 °C)	
glass transition temperature:	-90 °C	(OECD Guideline 102)
	(1,013 hPa)	
Boiling point:	276 °C	
	(1,013.25 hPa)	
	Literature data.	
Flash point:	125 °C	(ISO 2719)
Evaporation rate:	Value can be approximated from Henry's Law Constant or vapor pressure.	
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.	
Upper explosion limit:	For liquids not relevant for classification and labelling.	
Ignition temperature:	237 °C	(Directive 84/449/EEC, A.15)
Vapour pressure:	0.0024 hPa	(OECD Guideline 104)
	(20 °C)	
Density:	0.88 g/cm <sup>3</sup>	
	(20 °C)	
	Literature data.	
	0.85 g/cm <sup>3</sup>	
	(50 °C)	

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Relative density:	0.88 (20 °C) Literature data.	
Relative vapour density (air):	7.66 (20 °C) Heavier than air.	(calculated)
Solubility in water:		(Directive 92/69/EEC, A.6)
	14.1 mg/l (20 °C, pH 6.3)	
Solubility (qualitative) solvent(s):	organic solvents soluble	
Partitioning coefficient n-octanol/water (log Kow):	4.5 (24 °C; pH value: approx. 7)	(Directive 92/69/EEC, A.8)
Self ignition:	Based on its structural properties the product is not classified as self-igniting.	Test type: Spontaneous self-ignition at room-temperature.
Thermal decomposition:	385 °C	
Viscosity, dynamic:	13.8 mPa.s (20 °C) 5.50 mPa.s (40 °C)	(OECD Guideline 114) (OECD Guideline 114)
Viscosity, kinematic:	15.8 mm <sup>2</sup> /s (20 °C) 6.41 mm <sup>2</sup> /s (40 °C)	(OECD Guideline 114) (OECD Guideline 114)
Explosion hazard:	Based on the chemical structure there is no indication of explosive properties.	
Fire promoting properties:	Based on its structural properties the product is not classified as oxidizing.	

## 9.2. Other information

Self heating ability:	not applicable, the product is a liquid	
pKA:	The substance does not dissociate., Study scientifically not justified.	
Adsorption/water - soil:	KOC: 1332; log KOC: 3.12	(calculated)
Surface tension:	Based on chemical structure, surface activity is not to be expected.	
Grain size distribution:	The substance / product is marketed or used in a non solid or granular form.	
Molar mass:	222.37 g/mol	

## SECTION 10: Stability and Reactivity

### 10.1. Reactivity



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

Corrosion to metals: Corrosive effects to metal are not anticipated.

Formation of flammable gases: Remarks: Forms no flammable gases in the presence of water.

## 10.2. Chemical stability

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

## 10.3. Possibility of hazardous reactions

Strong exothermic reaction.

## 10.4. Conditions to avoid

See SDS section 7 - Handling and storage.

## 10.5. Incompatible materials

Substances to avoid:

acids, bases

## 10.6. Hazardous decomposition products

Hazardous decomposition products:

acetylene

# SECTION 11: Toxicological Information

## 11.1. Information on toxicological effects

### Acute toxicity

Assessment of acute toxicity:

Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact. The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.

Experimental/calculated data:

LD50 rat (oral): > 2,610 mg/kg (BASF-Test)

No mortality was observed. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

LD50 rabbit (dermal): > 5,000 mg/kg

No mortality was observed.

### Irritation

Assessment of irritating effects:

Not irritating to the skin. Eye contact causes irritation.

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Experimental/calculated data:

Skin corrosion/irritation

rabbit: non-irritant (OECD Guideline 404)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Serious eye damage/irritation

rabbit: Irritant. (OECD Guideline 405)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

#### Respiratory/Skin sensitization

Assessment of sensitization:

Caused skin sensitization in animal studies.

Experimental/calculated data:

Mouse Local Lymph Node Assay (LLNA) mouse: skin sensitizing (OECD Guideline 429)

#### Germ cell mutagenicity

Assessment of mutagenicity:

The substance was not mutagenic in bacteria. No mutagenic effect was found in various tests with mammalian cell culture and mammals. The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.

#### Carcinogenicity

Assessment of carcinogenicity:

No reliable data was available concerning carcinogenic activity.

#### Reproductive toxicity

Assessment of reproduction toxicity:

The results of animal studies gave no indication of a fertility impairing effect.

#### Developmental toxicity

Assessment of teratogenicity:

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

#### Specific target organ toxicity (single exposure)

Assessment of STOT single:

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

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

Assessment of repeated dose toxicity:

The substance may cause damage to the liver after repeated ingestion of high doses, as shown in animal studies.

#### Aspiration hazard

No aspiration hazard expected.

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## **SECTION 12: Ecological Information**

### **12.1. Toxicity**

Assessment of aquatic toxicity:

Very toxic (acute effect) to aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Toxicity to fish:

LC50 (96 h) 1.43 mg/l, *Pimephales promelas* (Flow through.)

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

Aquatic invertebrates:

EC50 (48 h) 0.510 mg/l, *Daphnia magna* (Directive 79/831/EEC, static)

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

Aquatic plants:

EC50 (72 h) 2 mg/l (growth rate), *Desmodium subspicatus* (OECD Guideline 201, static)

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

Microorganisms/Effect on activated sludge:

EC20 (0.5 h) 180 mg/l, activated sludge (OECD Guideline 209, aerobic)

Chronic toxicity to fish:

Study scientifically not justified.

Chronic toxicity to aquatic invertebrates:

Study scientifically not justified.

Assessment of terrestrial toxicity:

No data available concerning terrestrial toxicity.

Study scientifically not justified.

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## 12.2. Persistence and degradability

Assessment biodegradation and elimination (H<sub>2</sub>O):  
Readily biodegradable (according to OECD criteria).

Elimination information:

70 - 80 % BOD of the ThOD (28 d) (OECD 301F; ISO 9408; 92/69/EWG, C.4-D) (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 possible.

## 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 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. Other adverse effects

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

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# SECTION 13: Disposal Considerations

## 13.1. Waste treatment methods

Observe national and local legal requirements.

The UK Environmental Protection (Duty of Care) Regulations (EP) and amendments should be noted (United Kingdom).

This product and any uncleaned containers must be disposed of as hazardous waste in accordance with the 2005 Hazardous Waste Regulations and amendments (United Kingdom)

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## SECTION 14: Transport Information

### Land transport

ADR

UN number or ID number: UN3082  
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains 3,7,11-TRIMETHYL-DODECATRIEN-3-OL)  
Transport hazard class(es): 9, EHSM  
Packing group: III  
Environmental hazards: yes  
Special precautions for user: None known

RID

UN number or ID number: UN3082  
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains 3,7,11-TRIMETHYL-DODECATRIEN-3-OL)  
Transport hazard class(es): 9, EHSM  
Packing group: III  
Environmental hazards: yes  
Special precautions for user: None known

### Inland waterway transport

ADN

UN number or ID number: UN3082  
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains 3,7,11-TRIMETHYL-DODECATRIEN-3-OL)  
Transport hazard class(es): 9, EHSM  
Packing group: III  
Environmental hazards: yes  
Special precautions for user: None known

Transport in inland waterway vessel

Not evaluated

### Sea transport

IMDG

UN number or ID number: UN 3082  
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains 3,7,11-TRIMETHYL-DODECATRIEN-3-OL)

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Transport hazard class(es): 9, EHSM  
Packing group: III  
Environmental hazards: yes  
Marine pollutant: YES  
Special precautions for user:

### **Air transport**

IATA/ICAO

UN number or ID number: UN 3082  
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains 3,7,11-TRIMETHYL-DODECATRIEN-3-OL)  
Transport hazard class(es): 9, EHSM  
Packing group: III  
Environmental hazards: yes  
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**

Maritime transport in bulk is not intended.

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### **Further information**

This product is subject to the most recent edition of "The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations" and their amendments (United Kingdom).

Product may be shipped as non-hazardous in suitable packages containing a net quantity of 5 L or less under the provisions of various regulatory agencies: ADR, RID, ADN: Special Provision 375; IMDG: 2.10.2.7; IATA: A197; TDG: Special Provision 99(2); 49CFR: §171.4 (c) (2) and also the Special Provision 375 in Appendix B which is regulated in China "Regulations Concerning Road Transportation of Dangerous Goods Part 3: Index of dangerous goods name and transportation requirements" (JT/T 617.3)

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## **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

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

List entry in regulation: E1

Classification applies for standard conditions of temperature and pressure.

The data should be considered when making any assessment under the Control of Substances Hazardous to Health Regulations (COSHH), and related guidance, for example, 'COSHH Essentials' (United Kingdom).

This product may be subject to the Control of Major Accident Hazards Regulations (COMAH), and amendments if specific threshold tonnages are exceeded (United Kingdom).

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

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## **SECTION 16: Other Information**

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

Aquatic Acute 1

Aquatic Chronic 1

Eye Dam./Irrit. 2B

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Skin Sens. 1B

M-factor acute: 1

M-factor chronic: 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:

Eye Dam./Irrit.	Serious eye damage/eye irritation
Skin Sens.	Skin sensitization
Aquatic Acute	Hazardous to the aquatic environment - acute
Aquatic Chronic	Hazardous to the aquatic environment - chronic
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

#### Abbreviations

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)

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	9,000 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
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.949932
	Risk from environmental exposure is driven by marine water.
Maximum amount of safe use	37.9 kg/d
Risk from environmental exposure is driven by marine water.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	3,7,11-Trimethyldodeca-1,6,10-trien-3-ol, mixed isomers Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.24 Pa
Process temperature	20 °C
Duration and Frequency of activity	60 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Avoid skin contact. Ensure minimization of manual phases	
Use suitable eye protection., Wear chemically resistant gloves in combination with 'basic' employee training.	

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<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.0034 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.001224
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	1 µg/cm <sup>3</sup>
Risk Characterization Ratio (RCR)	0.008163
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.0185 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.001853
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	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
<b>Operational conditions</b>	
Concentration of the substance	3,7,11-Trimethyldodeca-1,6,10-trien-3-ol, mixed isomers Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.24 Pa
Process temperature	20 °C
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Avoid skin contact. Ensure minimization of manual phases	
Use suitable eye protection., Wear chemically resistant gloves in combination with 'basic' employee training.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker

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	Worker - dermal, long-term - systemic
Exposure estimate	0.0686 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.02449
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	20 µg/cm <sup>3</sup>
Risk Characterization Ratio (RCR)	0.163265
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	5.0032 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.500324
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC5: Mixing or blending in batch processes Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	3,7,11-Trimethyldodeca-1,6,10-trien-3-ol,mixed isomers Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.24 Pa
Process temperature	20 °C
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 90 %
Wear chemically resistant gloves in combination with specific activity training	Effectiveness: 95 %
Avoid skin contact. Ensure minimization of manual phases	
Use suitable eye protection., Wear chemically resistant gloves in combination with 'basic' employee training.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.6857 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.244898
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	100 µg/cm <sup>3</sup>
Risk Characterization Ratio (RCR)	0.816327

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Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	2.7796 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.277958
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	3,7,11-Trimethyldodeca-1,6,10-trien-3-ol, mixed isomers Content: >= 0 % - <= 25 %
Physical state	liquid
Vapour pressure of the substance during use	0.24 Pa
Process temperature	20 °C
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Avoid skin contact. Ensure minimization of manual phases	
Use suitable eye protection., Wear chemically resistant gloves in combination with 'basic' employee training.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, worker, modified version, The concentration of the substance has been considered using a linear approach.
	Worker - dermal, long-term - systemic
Exposure estimate	0.3429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.122449
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, worker, modified version, The concentration of the substance has been considered using a linear approach.
	Worker - dermal, long-term - local
Exposure estimate	25 µg/cm <sup>3</sup>
Risk Characterization Ratio (RCR)	0.204082

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Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, worker, modified version, The concentration of the substance has been considered using a linear approach.
	Worker - inhalation, long-term - systemic
Exposure estimate	4.1694 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.416937
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	3,7,11-Trimethyldodeca-1,6,10-trien-3-ol, mixed isomers Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.24 Pa
Process temperature	20 °C
Duration and Frequency of activity	60 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Avoid skin contact. Ensure minimization of manual phases	
Use suitable eye protection., Wear chemically resistant gloves in combination with 'basic' employee training.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1.3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.489796
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	100 µg/cm <sup>3</sup>
Risk Characterization Ratio (RCR)	0.816327
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker

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	Worker - inhalation, long-term - systemic
Exposure estimate	2.7796 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.277958
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	3,7,11-Trimethyldodeca-1,6,10-trien-3-ol,mixed isomers Content: >= 0 % - <= 25 %
Physical state	liquid
Vapour pressure of the substance during use	0.24 Pa
Process temperature	20 °C
Duration and Frequency of activity	60 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Avoid skin contact. Ensure minimization of manual phases	
Use suitable eye protection., Wear chemically resistant gloves in combination with 'basic' employee training.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, worker, modified version, The concentration of the substance has been considered using a linear approach.
	Worker - dermal, long-term - systemic
Exposure estimate	0.1714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.061224
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, worker, modified version, The concentration of the substance has been considered using a linear approach.
	Worker - dermal, long-term - local
Exposure estimate	25 µg/cm <sup>3</sup>
Risk Characterization Ratio (RCR)	0.204082
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, worker, modified version, The concentration of the substance has been considered using a linear approach.
	Worker - inhalation, long-term - systemic

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Exposure estimate	2.3163 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.231632
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC15: Use a laboratory reagent. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	3,7,11-Trimethyldodeca-1,6,10-trien-3-ol, mixed isomers Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.24 Pa
Process temperature	20 °C
Duration and Frequency of activity	15 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Avoid skin contact. Ensure minimization of manual phases	
Use suitable eye protection., Wear chemically resistant gloves in combination with 'basic' employee training.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.0343 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.012245
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	10 µg/cm <sup>3</sup>
Risk Characterization Ratio (RCR)	0.081633
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	4.6326 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.463263
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

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## 2. Short title of exposure scenario

Use in/as Formulation, (use in industrial settings)

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	18,000 kg
Minimum emission days per year	250
Emission factor air	0 %
Emission factor water	0.01 %
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 v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.22703
	Risk from environmental exposure is driven by freshwater.
Maximum amount of safe use	317.1 kg/d
Risk from environmental exposure is driven by freshwater.	

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	7,200 kg
Minimum emission days per year	250
Emission factor air	0 %

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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
<b>Risk Management Measures</b>	
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
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.46499
	Risk from environmental exposure is driven by freshwater.
Maximum amount of safe use	61.9 kg/d
Risk from environmental exposure is driven by freshwater.	

<b>Contributing exposure scenario</b>	
Use descriptors covered	AISE SPERC 2.1.c.v2: AISE SPERC 2.1.c.v2
<b>Operational conditions</b>	
Annual amount used in the EU	5,600 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
<b>Risk Management Measures</b>	
Wastewater treatment measures considered suitable are, e.g.	Precipitation, Coagulation, Must be eliminated from water by chemical flocculation.

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Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.644285
	Risk from environmental exposure is driven by marine water.
Maximum amount of safe use	34.8 kg/d
Risk from environmental exposure is driven by marine water.	

<b>Contributing exposure scenario</b>	
Use descriptors covered	AISE SPERC 2.1.j.v2: AISE SPERC 2.1.j.v2
<b>Operational conditions</b>	
Annual amount used in the EU	5,200 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

<b>Risk Management Measures</b>	
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
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.376857
	Risk from environmental exposure is driven by freshwater.
Maximum amount of safe use	55.2 kg/d
Risk from environmental exposure is driven by freshwater.	

<b>Contributing exposure scenario</b>
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Use descriptors covered	AISE SPERC 2.1.k.v2: AISE SPERC 2.1.k.v2	
Operational conditions		
Annual amount used in the EU	2,800 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.		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 v4.1, ECETOC TRA v3.0, Environment	
Risk Characterization Ratio (RCR)	0.394483	
	Risk from environmental exposure is driven by freshwater.	
Maximum amount of safe use	28.4 kg/d	
Risk from environmental exposure is driven by freshwater.		

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	2,800 kg
Minimum emission days per year	250
Emission factor air	0 %
Emission factor water	0.4 %
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
<b>Risk Management Measures</b>	
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
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.644285
	Risk from environmental exposure is driven by marine water.
Maximum amount of safe use	17.4 kg/d
Risk from environmental exposure is driven by marine water.	

<b>Contributing exposure scenario</b>	
Use descriptors covered	ERC2: Formulation into mixture
<b>Operational conditions</b>	
Annual amount used in the EU	8,000 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
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.147709

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	Risk from environmental exposure is driven by freshwater.
Maximum amount of safe use	216.6 kg/d
Risk from environmental exposure is driven by freshwater.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ERC2: Formulation into mixture
<b>Operational conditions</b>	
Annual amount used in the EU	800 kg
Minimum emission days per year	250
Emission factor air	0 %
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
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.860036
	Risk from environmental exposure is driven by marine water.
Maximum amount of safe use	3.7 kg/d
Risk from environmental exposure is driven by marine water.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	3,7,11-Trimethyldodeca-1,6,10-trien-3-ol,mixed isomers Content: >= 0 % - <= 25 %
Physical state	liquid

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Vapour pressure of the substance during use	0.24 Pa
Process temperature	20 °C
Duration and Frequency of activity	60 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Avoid skin contact. Ensure minimization of manual phases	
Use suitable eye protection., Wear chemically resistant gloves in combination with 'basic' employee training.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, worker, modified version, The concentration of the substance has been considered using a linear approach.
	Worker - dermal, long-term - systemic
Exposure estimate	0.0009 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000306
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, worker, modified version, The concentration of the substance has been considered using a linear approach.
	Worker - dermal, long-term - local
Exposure estimate	0.25 µg/cm³
Risk Characterization Ratio (RCR)	0.002041
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, worker, modified version, The concentration of the substance has been considered using a linear approach.
	Worker - inhalation, long-term - systemic
Exposure estimate	0.0046 mg/m³
Risk Characterization Ratio (RCR)	0.000463
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	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
<b>Operational conditions</b>	
Concentration of the substance	3,7,11-Trimethyldodeca-1,6,10-trien-3-ol,mixed isomers Content: >= 0 % - <= 25 %

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Physical state	liquid
Vapour pressure of the substance during use	0.24 Pa
Process temperature	20 °C
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Avoid skin contact. Ensure minimization of manual phases	
Use suitable eye protection., Wear chemically resistant gloves in combination with 'basic' employee training.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, worker, modified version, The concentration of the substance has been considered using a linear approach.
	Worker - dermal, long-term - systemic
Exposure estimate	0.0171 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.006122
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, worker, modified version, The concentration of the substance has been considered using a linear approach.
	Worker - dermal, long-term - local
Exposure estimate	5 µg/cm <sup>3</sup>
Risk Characterization Ratio (RCR)	0.040816
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, worker, modified version, The concentration of the substance has been considered using a linear approach.
	Worker - inhalation, long-term - systemic
Exposure estimate	4.1694 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.416937
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	
<b>Contributing exposure scenario</b>	
Use descriptors covered	PROC5: Mixing or blending in batch processes Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	3,7,11-Trimethyldodeca-1,6,10-trien-3-ol,mixed isomers Content: >= 0 % - <= 25 %



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Physical state	liquid
Vapour pressure of the substance during use	0.24 Pa
Process temperature	20 °C
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Avoid skin contact. Ensure minimization of manual phases	
Use suitable eye protection., Wear chemically resistant gloves in combination with 'basic' employee training.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, worker, modified version, The concentration of the substance has been considered using a linear approach.
	Worker - dermal, long-term - systemic
Exposure estimate	0.3429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.122449
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, worker, modified version, The concentration of the substance has been considered using a linear approach.
	Worker - dermal, long-term - local
Exposure estimate	50 µg/cm <sup>3</sup>
Risk Characterization Ratio (RCR)	0.408163
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, worker, modified version, The concentration of the substance has been considered using a linear approach.
	Worker - inhalation, long-term - systemic
Exposure estimate	6.9489 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.694895
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	3,7,11-Trimethyldodeca-1,6,10-trien-3-ol,mixed isomers Content: >= 0 % - <= 1 %

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Physical state	liquid
Vapour pressure of the substance during use	0.24 Pa
Process temperature	20 °C
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, worker, modified version, The concentration of the substance has been considered using a linear approach.
	Worker - dermal, long-term - systemic
Exposure estimate	0.1371 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.04898
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, worker, modified version, The concentration of the substance has been considered using a linear approach.
	Worker - dermal, long-term - local
Exposure estimate	10 µg/cm <sup>3</sup>
Risk Characterization Ratio (RCR)	0.081633
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, worker, modified version, The concentration of the substance has been considered using a linear approach.
	Worker - inhalation, long-term - systemic
Exposure estimate	0.5559 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.055592
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	3,7,11-Trimethyldodeca-1,6,10-trien-3-ol,mixed isomers Content: >= 0 % - <= 25 %
Physical state	liquid
Vapour pressure of the substance during use	0.24 Pa
Process temperature	20 °C
Duration and Frequency of activity	60 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in	Effectiveness: 90 %

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combination with 'basic' employee training.	
Avoid skin contact. Ensure minimization of manual phases	
Use suitable eye protection., Wear chemically resistant gloves in combination with 'basic' employee training.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, worker, modified version, The concentration of the substance has been considered using a linear approach.
	Worker - dermal, long-term - systemic
Exposure estimate	0.3429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.122449
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, worker, modified version, The concentration of the substance has been considered using a linear approach.
	Worker - dermal, long-term - local
Exposure estimate	25 µg/cm <sup>3</sup>
Risk Characterization Ratio (RCR)	0.204082
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, worker, modified version, The concentration of the substance has been considered using a linear approach.
	Worker - inhalation, long-term - systemic
Exposure estimate	2.3163 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.231632
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	3,7,11-Trimethyldodeca-1,6,10-trien-3-ol,mixed isomers Content: >= 0 % - <= 1 %
Physical state	liquid
Vapour pressure of the substance during use	0.24 Pa
Process temperature	20 °C
Duration and Frequency of activity	60 min 5 days per week
Indoor/Outdoor	Indoor
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, worker, modified

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	version, The concentration of the substance has been considered using a linear approach.
	Worker - dermal, long-term - systemic
Exposure estimate	0.0686 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.02449
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, worker, modified version, The concentration of the substance has been considered using a linear approach.
	Worker - dermal, long-term - local
Exposure estimate	10 µg/cm <sup>3</sup>
Risk Characterization Ratio (RCR)	0.081633
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, worker, modified version, The concentration of the substance has been considered using a linear approach.
	Worker - inhalation, long-term - systemic
Exposure estimate	0.0927 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.009265
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC14: Tableting, compression, extrusion, pelletisation, granulation Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	3,7,11-Trimethyldodeca-1,6,10-trien-3-ol,mixed isomers Content: >= 0 % - <= 1 %
Physical state	liquid
Vapour pressure of the substance during use	0.24 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, worker, modified version, The concentration of the substance has been considered using a linear approach.
	Worker - dermal, long-term - systemic
Exposure estimate	0.0343 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.012245
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, worker, modified version, The concentration of the substance has been considered using a linear approach.
	Worker - dermal, long-term - local
Exposure estimate	5 µg/cm <sup>3</sup>

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Risk Characterization Ratio (RCR)	0.040816
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, worker, modified version, The concentration of the substance has been considered using a linear approach.
	Worker - inhalation, long-term - systemic
Exposure estimate	0.4633 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.046326
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC15: Use a laboratory reagent. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	3,7,11-Trimethyldodeca-1,6,10-trien-3-ol,mixed isomers Content: >= 0 % - <= 25 %
Physical state	liquid
Vapour pressure of the substance during use	0.24 Pa
Process temperature	20 °C
Duration and Frequency of activity	15 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Avoid skin contact. Ensure minimization of manual phases	
Use suitable eye protection., Wear chemically resistant gloves in combination with 'basic' employee training.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, worker, modified version, The concentration of the substance has been considered using a linear approach.
	Worker - dermal, long-term - systemic
Exposure estimate	0.0086 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.003061
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, worker, modified version, The concentration of the substance has been considered using a linear approach.
	Worker - dermal, long-term - local
Exposure estimate	2.5 µg/cm <sup>3</sup>
Risk Characterization Ratio (RCR)	0.020408

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Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, worker, modified version, The concentration of the substance has been considered using a linear approach.
	Worker - inhalation, long-term - systemic
Exposure estimate	1.1582 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.115816
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

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### 3. Short title of exposure scenario

Use in Cleaning Agents, (use in industrial settings)

ERC4; PROC1, PROC2, PROC4, PROC7, PROC8b, PROC10, PROC13

### Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC4: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) In accordance to Article 14 (2a) of the REACH Regulation (EC) No 1907/2006, exposure estimation and risk characterisation does not need to be performed if the concentration of the substance in a preparation is less than the cut-off value referred to in Article 11, paragraph 3 of Regulation (EC) No 1272/2008.
<b>Operational conditions</b>	

Contributing exposure scenario	
Use descriptors covered	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. In accordance to Article 14 (2a) of the REACH Regulation (EC) No 1907/2006, exposure estimation and risk characterisation does not need to be performed if the concentration of the substance in a preparation is less than the cut-off value referred to in Article 11, paragraph 3 of Regulation (EC) No 1272/2008.

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 In accordance to Article 14 (2a) of the REACH Regulation (EC) No 1907/2006, exposure estimation and risk characterisation does not need to be performed if the concentration of the substance in a preparation is less than the cut-off value referred to in Article 11, paragraph 3 of

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	Regulation (EC) No 1272/2008.
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Contributing exposure scenario	
<b>Use descriptors covered</b>	PROC4: Chemical production where opportunity for exposure arises In accordance to Article 14 (2a) of the REACH Regulation (EC) No 1907/2006, exposure estimation and risk characterisation does not need to be performed if the concentration of the substance in a preparation is less than the cut-off value referred to in Article 11, paragraph 3 of Regulation (EC) No 1272/2008.

Contributing exposure scenario	
<b>Use descriptors covered</b>	PROC7: Industrial spraying In accordance to Article 14 (2a) of the REACH Regulation (EC) No 1907/2006, exposure estimation and risk characterisation does not need to be performed if the concentration of the substance in a preparation is less than the cut-off value referred to in Article 11, paragraph 3 of Regulation (EC) No 1272/2008.

Contributing exposure scenario	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities In accordance to Article 14 (2a) of the REACH Regulation (EC) No 1907/2006, exposure estimation and risk characterisation does not need to be performed if the concentration of the substance in a preparation is less than the cut-off value referred to in Article 11, paragraph 3 of Regulation (EC) No 1272/2008.

Contributing exposure scenario	
<b>Use descriptors covered</b>	PROC10: Roller application or brushing In accordance to Article 14 (2a) of the REACH Regulation (EC) No 1907/2006, exposure estimation and risk characterisation does not need to be performed if the concentration of the substance in a preparation is less than the cut-off value referred to in Article 11, paragraph 3 of Regulation (EC) No 1272/2008.

Contributing exposure scenario	
<b>Use descriptors covered</b>	PROC13: Treatment of articles by dipping and pouring. In accordance to Article 14 (2a) of the REACH Regulation (EC) No 1907/2006, exposure estimation and risk characterisation does not need to be performed if the concentration of the substance in a preparation is less than

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	the cut-off value referred to in Article 11, paragraph 3 of Regulation (EC) No 1272/2008.
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#### 4. Short title of exposure scenario

Use as an intermediate, (use in industrial settings)

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. Use domain: industrial
Operational conditions	
Concentration of the substance	3,7,11-Trimethyldodeca-1,6,10-trien-3-ol,mixed isomers Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.24 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Avoid skin contact. Ensure minimization of manual phases	
Use suitable eye protection., Wear chemically resistant gloves in combination with 'basic' employee training.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic



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Exposure estimate	0.0034 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.001224
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	1 µg/cm <sup>3</sup>
Risk Characterization Ratio (RCR)	0.008163
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.0927 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.009265
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	3,7,11-Trimethyldodeca-1,6,10-trien-3-ol,mixed isomers Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.24 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Avoid skin contact. Ensure minimization of manual phases	
Use suitable eye protection., Wear chemically resistant gloves in combination with 'basic' employee training.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.1371 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.04898
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker

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	Worker - dermal, long-term - local
Exposure estimate	20 µg/cm <sup>3</sup>
Risk Characterization Ratio (RCR)	0.163265
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	6.4857 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.648568
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	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
<b>Operational conditions</b>	
Concentration of the substance	3,7,11-Trimethyldodeca-1,6,10-trien-3-ol, mixed isomers Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.24 Pa
Process temperature	20 °C
Duration and Frequency of activity	60 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Avoid skin contact. Ensure minimization of manual phases	
Use suitable eye protection., Wear chemically resistant gloves in combination with 'basic' employee training.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.0686 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.02449
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	20 µg/cm <sup>3</sup>

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Risk Characterization Ratio (RCR)	0.163265
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1.6677 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.166775
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	3,7,11-Trimethyldodeca-1,6,10-trien-3-ol, mixed isomers Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.24 Pa
Process temperature	20 °C
Duration and Frequency of activity	60 min 5 days per week
Indoor/Outdoor	Outdoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Avoid skin contact. Ensure minimization of manual phases	
Use suitable eye protection., Wear chemically resistant gloves in combination with 'basic' employee training.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, worker, modified version, The duration of activity has been considered using a linear approach.
	Worker - dermal, long-term - systemic
Exposure estimate	0.1714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.061224
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, worker, modified version, The duration of activity has been considered using a linear approach.
	Worker - dermal, long-term - local
Exposure estimate	12.5 µg/cm <sup>3</sup>
Risk Characterization Ratio (RCR)	0.102041
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, worker, modified version, The duration of activity has been considered using

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	a linear approach.
	Worker - inhalation, long-term - systemic
Exposure estimate	4.0536 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.405355
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	3,7,11-Trimethyldodeca-1,6,10-trien-3-ol,mixed isomers Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.24 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 90 %
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Avoid skin contact. Ensure minimization of manual phases	
Use suitable eye protection., Wear chemically resistant gloves in combination with 'basic' employee training.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.6857 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.244898
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	100 µg/cm <sup>3</sup>
Risk Characterization Ratio (RCR)	0.816327
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	4.6326 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.463263
<b>Guidance to Downstream Users</b>	

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For scaling see: <http://www.ecetoc.org/tra>

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC15: Use a laboratory reagent. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	3,7,11-Trimethyldodeca-1,6,10-trien-3-ol,mixed isomers Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.24 Pa
Process temperature	20 °C
Duration and Frequency of activity	15 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Avoid skin contact. Ensure minimization of manual phases	
Use suitable eye protection., Wear chemically resistant gloves in combination with 'basic' employee training.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.0343 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.012245
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	10 µg/cm³
Risk Characterization Ratio (RCR)	0.081633
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1.3898 mg/m³
Risk Characterization Ratio (RCR)	0.138979
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

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## 5. Short title of exposure scenario

Use in Cleaning Agents, Use in/as Surface care and Polishes, (use in professional settings)  
ERC8a; PROC1, PROC2, PROC4, PROC8a, PROC8b, PROC10, PROC11, PROC13

## 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	40,000 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 v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.389171
	Risk from environmental exposure is driven by freshwater.
Maximum amount of safe use	0.056319 kg/d
Risk from environmental exposure is driven by freshwater.	

Contributing exposure scenario	
Use descriptors covered	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. In accordance to Article 14 (2a) of the REACH Regulation (EC) No 1907/2006, exposure estimation and risk characterisation does not need to be performed if the concentration of the substance in a preparation is less than the cut-off value referred to in Article 11, paragraph 3 of Regulation (EC) No 1272/2008.

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Contributing exposure scenario	
Use descriptors covered	<p>PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions</p> <p>In accordance to Article 14 (2a) of the REACH Regulation (EC) No 1907/2006, exposure estimation and risk characterisation does not need to be performed if the concentration of the substance in a preparation is less than the cut-off value referred to in Article 11, paragraph 3 of Regulation (EC) No 1272/2008.</p>
Contributing exposure scenario	
Use descriptors covered	<p>PROC4: Chemical production where opportunity for exposure arises</p> <p>In accordance to Article 14 (2a) of the REACH Regulation (EC) No 1907/2006, exposure estimation and risk characterisation does not need to be performed if the concentration of the substance in a preparation is less than the cut-off value referred to in Article 11, paragraph 3 of Regulation (EC) No 1272/2008.</p>
Contributing exposure scenario	
Use descriptors covered	<p>PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities</p> <p>In accordance to Article 14 (2a) of the REACH Regulation (EC) No 1907/2006, exposure estimation and risk characterisation does not need to be performed if the concentration of the substance in a preparation is less than the cut-off value referred to in Article 11, paragraph 3 of Regulation (EC) No 1272/2008.</p>
Contributing exposure scenario	
Use descriptors covered	<p>PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities</p> <p>In accordance to Article 14 (2a) of the REACH Regulation (EC) No 1907/2006, exposure estimation and risk characterisation does not need to be performed if the concentration of the substance in a preparation is less than the cut-off value referred to in Article 11, paragraph 3 of Regulation (EC) No 1272/2008.</p>
Contributing exposure scenario	
Use descriptors covered	<p>PROC10: Roller application or brushing</p> <p>In accordance to Article 14 (2a) of the REACH Regulation (EC) No 1907/2006, exposure estimation and risk characterisation does not need to be performed if the concentration of the substance in a preparation is less than</p>

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	the cut-off value referred to in Article 11, paragraph 3 of Regulation (EC) No 1272/2008.
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Contributing exposure scenario	
<b>Use descriptors covered</b>	PROC11: Non industrial spraying In accordance to Article 14 (2a) of the REACH Regulation (EC) No 1907/2006, exposure estimation and risk characterisation does not need to be performed if the concentration of the substance in a preparation is less than the cut-off value referred to in Article 11, paragraph 3 of Regulation (EC) No 1272/2008.

Contributing exposure scenario	
<b>Use descriptors covered</b>	PROC13: Treatment of articles by dipping and pouring. In accordance to Article 14 (2a) of the REACH Regulation (EC) No 1907/2006, exposure estimation and risk characterisation does not need to be performed if the concentration of the substance in a preparation is less than the cut-off value referred to in Article 11, paragraph 3 of Regulation (EC) No 1272/2008.

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## 6. Short title of exposure scenario

Use in Cleaning Agents, Use in/as Surface care and Polishes, (consumer use)

ERC8a, ERC8d; PC31, PC35

## Control of exposure and risk management measures

Contributing exposure scenario	
<b>Use descriptors covered</b>	ERC8a: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
Operational conditions	
Annual amount used in the EU	40,000 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



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Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.389171
	Risk from environmental exposure is driven by freshwater.
Maximum amount of safe use	0.056319 kg/d
Risk from environmental exposure is driven by freshwater.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ERC8d: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)
<b>Operational conditions</b>	
Annual amount used in the EU	40,000 kg
Minimum emission days per year	365
Emission factor air	100 %
Emission factor water	100 %
Emission factor soil	20 %
Receive Surf. Water (Flow Rate).	18,000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.389171
	Risk from environmental exposure is driven by freshwater.
Maximum amount of safe use	0.056319 kg/d
Risk from environmental exposure is driven by freshwater.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PC31: Polishes and Wax Blends.

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	In accordance to Article 14 (2a) of the REACH Regulation (EC) No 1907/2006, exposure estimation and risk characterisation does not need to be performed if the concentration of the substance in a preparation is less than the cut-off value referred to in Article 11, paragraph 3 of Regulation (EC) No 1272/2008.
<b>Operational conditions</b>	
Vapour pressure of the substance during use	0.24 Pa
Process temperature	20 °C

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PC35: Washing and Cleaning Products (including solvent based products). In accordance to Article 14 (2a) of the REACH Regulation (EC) No 1907/2006, exposure estimation and risk characterisation does not need to be performed if the concentration of the substance in a preparation is less than the cut-off value referred to in Article 11, paragraph 3 of Regulation (EC) No 1272/2008.
<b>Operational conditions</b>	
Vapour pressure of the substance during use	0.24 Pa
Process temperature	20 °C

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## 7. Short title of exposure scenario

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

ERC8a; PC3

## Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ERC8a: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
<b>Operational conditions</b>	
Annual amount used in the EU	40,000 kg
Minimum emission days per year	365
Emission factor air	100 %
Emission factor water	100 %

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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
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.389171
	Risk from environmental exposure is driven by freshwater.
Maximum amount of safe use	0.056319 kg/d
Risk from environmental exposure is driven by freshwater.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PC3: Air care products.
<b>Operational conditions</b>	
Concentration of the substance	3,7,11-Trimethyldodeca-1,6,10-trien-3-ol,mixed isomers Content: >= 0 % - <= 0.1499 %
Vapour pressure of the substance during use	0.24 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 480 min Relevant for inhalative exposure estimates
Duration and Frequency of activity	150 uses per year
Room size	16 m3
Ventilation rate per hour	1
body weight	65 kg
Spray duration	28800 sec
<b>Risk Management Measures</b>	
Consumer Measures	Ensure spraying away from persons.
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Inhalation model: Exposure to spray/dust
	Consumer - inhalation, long-term - systemic
Exposure estimate	0.0006 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.000221
	The exposure calculation is based on the mean concentration on the day of exposure.

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### **Guidance to Downstream Users**

For scaling see: <http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp>

### **Contributing exposure scenario**

<b>Use descriptors covered</b>	PC3: Air care products. Other products of this category do either not exceed a concentration of 0.1% for this substance or exposure estimations are covered by the calculations made for this product category. In accordance to Article 14 (2a) of the REACH Regulation (EC) No 1907/2006, exposure estimation and risk characterisation does not need to be performed if the concentration of the substance in a preparation is less than the cut-off value referred to in Article 11, paragraph 3 of Regulation (EC) No 1272/2008.
<b>Operational conditions</b>	
Vapour pressure of the substance during use	0.24 Pa
Process temperature	20 °C

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### **8. Short title of exposure scenario**

Use in cosmetics, (consumer use)

ERC8a; PC28, PC39

### **Control of exposure and risk management measures**

#### **Contributing exposure scenario**

<b>Use descriptors covered</b>	ERC8a: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
<b>Operational conditions</b>	
Annual amount used in the EU	40,000 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

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<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.389171
	Risk from environmental exposure is driven by freshwater.
Maximum amount of safe use	0.056319 kg/d
Risk from environmental exposure is driven by freshwater.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	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.
<b>Operational conditions</b>	
Vapour pressure of the substance during use	0.24 Pa
Process temperature	20 °C

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	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.
<b>Operational conditions</b>	
Vapour pressure of the substance during use	0.24 Pa
Process temperature	20 °C

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## 9. Short title of exposure scenario

Consumer applications

ERC8a, ERC8d; PC8

## Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ERC8a: Widespread use of non-reactive processing aid

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	(no inclusion into or onto article, indoor)
<b>Operational conditions</b>	
Annual amount used in the EU	40,000 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
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.389171
	Risk from environmental exposure is driven by freshwater.
Maximum amount of safe use	0.056319 kg/d
Risk from environmental exposure is driven by freshwater.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ERC8d: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)
<b>Operational conditions</b>	
Annual amount used in the EU	40,000 kg
Minimum emission days per year	365
Emission factor air	100 %
Emission factor water	100 %
Emission factor soil	20 %
Receive Surf. Water (Flow Rate).	18,000 m3/d
Dilution factor river	10

BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from time to time.

Date / Revised: 26.08.2024

Version: 11.0

Date / Previous version: 30.08.2022

Previous version: 10.0

Product: **Nerolidol**

(ID no. 30034996/SDS\_GEN\_GB/EN)

Date of print 14.10.2025

Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.389171
	Risk from environmental exposure is driven by freshwater.
Maximum amount of safe use	0.056319 kg/d
Risk from environmental exposure is driven by freshwater.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PC8: Biocidal Products. In accordance to Article 14 (2a) of the REACH Regulation (EC) No 1907/2006, exposure estimation and risk characterisation does not need to be performed if the concentration of the substance in a preparation is less than the cut-off value referred to in Article 11, paragraph 3 of Regulation (EC) No 1272/2008.
<b>Operational conditions</b>	
Vapour pressure of the substance during use	0.24 Pa
Process temperature	20 °C

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