

# Safety data sheet

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

Date / Revised: 14.08.2023

Version: 1.0

Date previous version: not applicable

Previous version: none

Date / First version: 14.08.2023

Product: **Velberry®**

(ID no. 30734921/SDS\_GEN\_NL/EN)

Date of print 21.06.2026

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

### 1.1. Product identifier

## Velberry®

Chemical name: (3-acetyloxy-2,2-dimethylpropyl) acetate

CAS Number: 13431-57-7

REACH registration number: 01-2120779141-56-0000

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

Recommended use: Chemical, Chemical for soaps, detergents and cosmetic

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  
GERMANYContact address:BASF Nederland B. V.  
Velperplein 23,  
6811 AH Arnhem  
NETHERLANDS

Telephone: +31 26 371 71 71

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

### 1.4. Emergency telephone number

National Poisoning Information Centre: +31 88 755 8000

Information only for professionals in case of acute intoxication

International emergency number:

Telephone: +49 180 2273-112

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## SECTION 2: Hazards Identification

### 2.1. Classification of the substance or mixture

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

No need for classification according to GHS criteria for this product.

### 2.2. Label elements

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

The product does not require a hazard warning label in accordance with GHS criteria.

### 2.3. Other hazards

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

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria. Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

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## SECTION 3: Composition/Information on Ingredients

### 3.1. Substances

Chemical nature

2,2-dimethylpropane-1,3-diyl diacetate

CAS Number: 13431-57-7

### 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:

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Keep patient calm, remove to fresh air.

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.

On ingestion:

Rinse mouth and then drink 200-300 ml of water.

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

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

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

Treatment: Symptomatic treatment (decontamination, vital functions).

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

#### **5.1. Extinguishing media**

Suitable extinguishing media:

carbon dioxide, alcohol-resistant foam, dry powder, dry soda ash

Unsuitable extinguishing media for safety reasons:

water jet

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

Endangering substances: harmful vapours, carbon oxides

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:

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

Use personal protective clothing. Information regarding personal protective measures, see section 8.

### 6.2. Environmental precautions

Do not discharge into drains/surface waters/groundwater.

### 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

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

Handle in accordance with good industrial hygiene and safety practice.

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 container tightly closed in a cool, well-ventilated place.

### 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.

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#### PNEC

freshwater: 0,0404 mg/l

marine water: 0,00404 mg/l

intermittent release: 0,404 mg/l

sediment (freshwater): 0,153 mg/kg

sediment (marine water): 0,0153 mg/kg

soil: 0,0068 mg/kg

STP: 10 mg/l

#### DNEL

No hazard identified.

## **8.2. Exposure controls**

#### Personal protective equipment

Respiratory protection:

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

Hand protection:

Chemical resistant protective gloves (EN ISO 374-1)

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

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen based on level of activity and exposure.

#### General safety and hygiene measures

Handle in accordance with good industrial hygiene and safety practice. 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.

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## **SECTION 9: Physical and Chemical Properties**

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

State of matter: liquid

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Form:	liquid	
Colour:	colourless clear	
Odour:	of berries, sweetish	
Odour threshold:		
	not determined	
Melting point:	-10 °C (1.013 hPa)	(OECD Guideline 102)
Boiling point:	219,3 °C (1.013 hPa)	(OECD Guideline 103)
Flammability:	hardly combustible	(derived from flash point)
Lower explosion limit:		
	The lower explosion point may be 5 - 15 °C below the flash point., For liquids not relevant for classification and labelling.	
Upper explosion limit:		
	For liquids not relevant for classification and labelling.	
Flash point:	99 °C	(Directive 92/69/EEC, A.9, closed cup) (Directive 92/69/EEC, A.15)
Auto-ignition temperature:	415 °C	
Thermal decomposition:	approx. 190 °C (DSC (DIN 51007))	
	No decomposition if stored and handled as prescribed/indicated.	
pH value:	4,8 (14,3 g/l, 20 °C)	(OECD Guideline 105)
Viscosity, kinematic:	3,75 mm <sup>2</sup> /s (20 °C)	(OECD 114)
	2,29 mm <sup>2</sup> /s (40 °C)	(OECD 114)
Viscosity, dynamic:	3,8 mPa.s (20 °C)	(OECD 114)
	2,28 mPa.s (40 °C)	(OECD 114)
Solubility in water:		(OECD Guideline 105)
	14,3 g/l (20 °C, pH 4,8)	
Partitioning coefficient n-octanol/water (log Kow):	1,9 (23 °C)	(OECD Guideline 117)
Vapour pressure:	0,06 hPa (20 °C)	(OECD Guideline 104)
Relative density:	1,0127 (20 °C)	(OECD Guideline 109)
Relative vapour density (air):	6,49 (20 °C)	(calculated)
	Heavier than air.	

#### Particle characteristics

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

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## 9.2. Other information

### Information with regard to physical hazard classes

#### Explosives

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

#### Oxidizing properties

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

#### Pyrophoric properties

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

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

#### Self-heating substances and mixtures

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

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

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

#### Corrosion to metals

Corrosive effects to metal are not anticipated.

### Other safety characteristics

Adsorption/water - soil: KOC: 664 - 1988; log KOC: 2,82 - 3,30 (OECD Guideline 106)

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

Molar mass: 188,22 g/mol

SAPT-Temperature: Study scientifically not justified.

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

## SECTION 10: Stability and Reactivity

### 10.1. Reactivity

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

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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

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

## 10.4. Conditions to avoid

See SDS section 7 - Handling and storage.

## 10.5. Incompatible materials

Substances to avoid:

None known during use and storage if used according to instructions.

## 10.6. Hazardous decomposition products

Hazardous decomposition products:

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

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# SECTION 11: Toxicological Information

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

### Acute toxicity

Assessment of acute toxicity:

Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation.

Experimental/calculated data:

LD50 rat (oral): > 2.000 mg/kg (OECD Guideline 423)

No mortality was observed.

LC50 rat (by inhalation): > 5.475 mg/l 4 h (OECD Guideline 403)

No mortality was observed. An aerosol was tested.

LD50 rat (dermal): > 2.000 mg/kg (OECD Guideline 402)

No mortality was observed.

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#### Irritation

Assessment of irritating effects:

Not irritating to eyes and skin.

Experimental/calculated data:

Skin corrosion/irritation

In vitro assay: non-irritant (OECD Guideline 439)

Serious eye damage/irritation

In vitro assay: non-irritant (OECD Guideline 492)

#### Respiratory/Skin sensitization

Assessment of sensitization:

There is no evidence of a skin-sensitizing potential.

Experimental/calculated data:

In vitro/in chemico test battery non-animal method: Non-sensitizing. (OECD Guidelines 442C/D)

#### Germ cell mutagenicity

Assessment of mutagenicity:

No mutagenic effect was found in various tests with bacteria and mammalian cell culture.

Experimental/calculated data:

Ames-test

negative (OECD Guideline 471)

#### Carcinogenicity

Assessment of carcinogenicity:

No data available.

#### Reproductive toxicity

Assessment of reproduction toxicity:

The results of animal studies gave no indication of a fertility impairing effect. The results were determined in a Screening test (OECD 421/422).

#### Developmental toxicity

Assessment of teratogenicity:

No indications of a developmental toxic / teratogenic effect were seen in animal studies. The results were determined in a Screening test (OECD 421/422).

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

Assessment of STOT single:

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

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

Assessment of repeated dose toxicity:

No substance-specific organotoxicity was observed after repeated administration to animals.

#### Aspiration hazard

not applicable

#### Interactive effects

No data available.

### **11.2. Information on other hazards**

#### Endocrine disrupting properties

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

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## **SECTION 12: Ecological Information**

### **12.1. Toxicity**

Assessment of aquatic toxicity:

Acutely harmful for aquatic organisms.

Toxicity to fish:

LC50 (96 h) 40,4 mg/l, *Gobiocypris rarus* (OECD Guideline 203, semistatic)

Aquatic invertebrates:

EC50 (48 h) 116 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, semistatic)

Aquatic plants:

EC50 (72 h) > 143 mg/l (growth rate), *Pseudokirchneriella subcapitata* (OECD Guideline 201, static)  
Limit concentration test only (LIMIT test).

Microorganisms/Effect on activated sludge:

EC50 (3 h) > 1.000 mg/l, activated sludge, domestic (OECD Guideline 209, aerobic)

Assessment of terrestrial toxicity:

No data available concerning terrestrial toxicity.

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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:

84 % CO<sub>2</sub> formation relative to the theoretical value (28 d) (OECD 301B; ISO 9439; 92/69/EEC, C.4-C) (aerobic, activated sludge, domestic, non-adapted) Based on OECD criteria the product is readily biodegradable.

Assessment of stability in water:

Substance is readily biodegradable, therefore hydrolysis is not expected to be relevant.

## 12.3. Bioaccumulative potential

Assessment bioaccumulation potential:

No significant accumulation in organisms is expected as a result of the distribution coefficient of n-octanol/water (log Pow).

## 12.4. Mobility in soil

Assessment transport between environmental compartments:

Volatility: The substance will not 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).

## 12.6. Endocrine disrupting properties

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

## 12.7. Other adverse effects

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

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## SECTION 13: Disposal Considerations

### 13.1. Waste treatment methods

Observe national and local legal requirements.

Contaminated packaging:

Uncontaminated packaging can be re-used.

Packs that cannot be cleaned should be disposed of in the same manner as the contents.

## SECTION 14: Transport Information

### Land transport

ADR

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

RID

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

### Inland waterway transport

ADN

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

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#### Transport in inland waterway vessel

Not evaluated

### **Sea transport**

#### IMDG

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

### **Air transport**

#### IATA/ICAO

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

#### **14.1. UN number or ID number**

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

#### **14.2. UN proper shipping name**

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

#### **14.3. Transport hazard class(es)**

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

#### **14.4. Packing group**

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

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#### **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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### **SECTION 15: Regulatory Information**

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

Directive 2012/18/EU - Control of Major Accident Hazards involving dangerous substances (EU):  
Listed in above regulation: no

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 3

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

#### 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.

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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.

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## Annex: Exposure Scenarios

### Index

1. Compounding, (use in industrial settings)

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

2. Formulation, (use in industrial settings)

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

3. Use as an intermediate, (use in industrial settings)

IS; ERC6a; PROC2, PROC8b

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

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

5. Use in polishes, wax blends, washing and cleaning products, (consumer use)

C; ERC8a; PC31, PC35

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

C; ERC8a; PC3

7. Use in cosmetics, (consumer use)

C; ERC8a; PC28, PC39

8. Use as fragrance in biocidal products, (consumer use)

C; ERC8a; PC8

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### 1. Short title of exposure scenario

Compounding, (use in industrial settings)

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

### Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	IFRA 2.1b.v1
<b>Operational conditions</b>	
Annual amount used in the EU	20.000 kg
Minimum emission days per year	250
Emission factor air	2,5 %
Emission factor water	0,5 %

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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 v6.0, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,016641
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	96,1 kg/d
Risk from environmental exposure is driven by soil.	

<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. As no toxicological hazard was identified no human related (worker/consumer) exposure assessment and risk characterization was performed.

<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 As no toxicological hazard was identified no human related (worker/consumer) exposure assessment and risk characterization was performed.

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC5: Mixing or blending in batch processes As no toxicological hazard was identified no human related (worker/consumer) exposure assessment and risk characterization was performed.

<b>Contributing exposure scenario</b>	
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<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities As no toxicological hazard was identified no human related (worker/consumer) exposure assessment and risk characterization was performed.
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<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities As no toxicological hazard was identified no human related (worker/consumer) exposure assessment and risk characterization was performed.

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). As no toxicological hazard was identified no human related (worker/consumer) exposure assessment and risk characterization was performed.

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC15: Use a laboratory reagent. As no toxicological hazard was identified no human related (worker/consumer) exposure assessment and risk characterization was performed.

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## 2. Short title of exposure scenario

Formulation, (use in industrial settings)

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

## Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	AISE SPERC 2.1.a.v2: AISE SPERC 2.1.a.v2
<b>Operational conditions</b>	
Annual amount used in the EU	9.000 kg
Minimum emission days per year	250
Emission factor air	0 %

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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
<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 v6.0, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,008063
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	4.465,1 kg/d
Risk from environmental exposure is driven by soil.	
<b>Contributing exposure scenario</b>	
Use descriptors covered	AISE SPERC 2.1.b.v2: AISE SPERC 2.1.b.v2
<b>Operational conditions</b>	
Annual amount used in the EU	4.000 kg
Minimum emission days per year	250
Emission factor air	0 %
Emission factor water	0,1 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Wastewater treatment measures considered suitable are, e.g.	Precipitation, Coagulation,

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	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 v6.0, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,031627
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	505,9 kg/d
Risk from environmental exposure is driven by soil.	

<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	3.000 kg
Minimum emission days per year	250
Emission factor air	0 %
Emission factor water	0,2 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
<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 v6.0, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,04683
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	256,2 kg/d
Risk from environmental exposure is driven by soil.	

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<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	AISE SPERC 2.1.j.v2: AISE SPERC 2.1.j.v2
<b>Operational conditions</b>	
Annual amount used in the EU	3.000 kg
Minimum emission days per year	250
Emission factor air	0 %
Emission factor water	0,1 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
<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 v6.0, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,024026
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	499,5 kg/d
Risk from environmental exposure is driven by soil.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	AISE SPERC 2.1.k.v2: AISE SPERC 2.1.k.v2
<b>Operational conditions</b>	
Annual amount used in the EU	2.000 kg
Minimum emission days per year	250
Emission factor air	0 %
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>	
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 v6.0, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,031627
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	252,9 kg/d
Risk from environmental exposure is driven by soil.	
<b>Contributing exposure scenario</b>	
Use descriptors covered	AISE SPERC 2.1.I.v2: AISE SPERC 2.1.I.v2
<b>Operational conditions</b>	
Annual amount used in the EU	2.000 kg
Minimum emission days per year	250
Emission factor air	0 %
Emission factor water	0,4 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Wastewater treatment measures considered suitable are, e.g.	Nanofiltration (NR),

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	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 v6.0, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,062033
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	129 kg/d
Risk from environmental exposure is driven by soil.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ERC2: Formulation into mixture
<b>Operational conditions</b>	
Annual amount used in the EU	4.000 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 v6.0, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,001221
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	13.102,5 kg/d
Risk from environmental exposure is driven by soil.	

<b>Contributing exposure scenario</b>
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<b>Use descriptors covered</b>	ERC2: Formulation into mixture	
<b>Operational conditions</b>		
Annual amount used in the EU	1.000 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 v6.0, ECETOC TRA v3.0, Environment	
Risk Characterization Ratio (RCR)	0,153252	
	Risk from environmental exposure is driven by soil.	
Maximum amount of safe use	26,1 kg/d	
Risk from environmental exposure is driven by soil.		

<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. As no toxicological hazard was identified no human related (worker/consumer) exposure assessment and risk characterization was performed.

<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 As no toxicological hazard was identified no human related (worker/consumer) exposure assessment and risk characterization was performed.

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Contributing exposure scenario	
<b>Use descriptors covered</b>	PROC5: Mixing or blending in batch processes As no toxicological hazard was identified no human related (worker/consumer) exposure assessment and risk characterization was performed.

Contributing exposure scenario	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities As no toxicological hazard was identified no human related (worker/consumer) exposure assessment and risk characterization was performed.

Contributing exposure scenario	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities As no toxicological hazard was identified no human related (worker/consumer) exposure assessment and risk characterization was performed.

Contributing exposure scenario	
<b>Use descriptors covered</b>	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). As no toxicological hazard was identified no human related (worker/consumer) exposure assessment and risk characterization was performed.

Contributing exposure scenario	
<b>Use descriptors covered</b>	PROC14: Tableting, compression, extrusion, pelletisation, granulation As no toxicological hazard was identified no human related (worker/consumer) exposure assessment and risk characterization was performed.

Contributing exposure scenario	
<b>Use descriptors covered</b>	PROC15: Use a laboratory reagent. As no toxicological hazard was identified no human related (worker/consumer) exposure assessment and risk characterization was performed.

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### 3. Short title of exposure scenario

Use as an intermediate, (use in industrial settings)

IS; ERC6a; PROC2, PROC8b

#### Control of exposure and risk management measures

Contributing exposure scenario	
<b>Use descriptors covered</b>	ERC6a: Use of intermediate No assessment required - Industrial use as intermediate under strictly controlled conditions
<b>Operational conditions</b>	

Contributing exposure scenario	
<b>Use descriptors covered</b>	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions As no toxicological hazard was identified no human related (worker/consumer) exposure assessment and risk characterization was performed.

Contributing exposure scenario	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities As no toxicological hazard was identified no human related (worker/consumer) exposure assessment and risk characterization was performed.

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### 4. Short title of exposure scenario

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

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

#### Control of exposure and risk management measures

Contributing exposure scenario	
<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	20.000 kg

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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 v6.0, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,022047
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	0,497065 kg/d
Risk from environmental exposure is driven by soil.	

<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. As no toxicological hazard was identified no human related (worker/consumer) exposure assessment and risk characterization was performed.

<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 As no toxicological hazard was identified no human related (worker/consumer) exposure assessment and risk characterization was performed.

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC4: Chemical production where opportunity for exposure arises

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	As no toxicological hazard was identified no human related (worker/consumer) exposure assessment and risk characterization was performed.
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<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities As no toxicological hazard was identified no human related (worker/consumer) exposure assessment and risk characterization was performed.

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities As no toxicological hazard was identified no human related (worker/consumer) exposure assessment and risk characterization was performed.

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC10: Roller application or brushing As no toxicological hazard was identified no human related (worker/consumer) exposure assessment and risk characterization was performed.

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC11: Non industrial spraying As no toxicological hazard was identified no human related (worker/consumer) exposure assessment and risk characterization was performed.

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC13: Treatment of articles by dipping and pouring. As no toxicological hazard was identified no human related (worker/consumer) exposure assessment and risk characterization was performed.

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC19: Manual activities involving hand contact As no toxicological hazard was identified no human related (worker/consumer) exposure assessment and risk characterization was performed.

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## 5. Short title of exposure scenario

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

### Control of exposure and risk management measures

<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	20.000 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 v6.0, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,022047
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	0,497065 kg/d
Risk from environmental exposure is driven by soil.	
<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PC31: Polishes and Wax Blends. As no toxicological hazard was identified no human related (worker/consumer) exposure assessment and risk characterization was performed.

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<b>Operational conditions</b>	
Vapour pressure of the substance during use	6 Pa

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PC35: Washing and Cleaning Products (including solvent based products). As no toxicological hazard was identified no human related (worker/consumer) exposure assessment and risk characterization was performed.
<b>Operational conditions</b>	
Vapour pressure of the substance during use	6 Pa

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## 6. Short title of exposure scenario

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

C; ERC8a; PC3

## Control of exposure and risk management measures

<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	20.000 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 m <sup>3</sup> /d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m <sup>3</sup> /d)	2.000 m <sup>3</sup> /d

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<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,022047
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	0,497065 kg/d
	Risk from environmental exposure is driven by soil.

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PC3: Air care products. As no toxicological hazard was identified no human related (worker/consumer) exposure assessment and risk characterization was performed.
<b>Operational conditions</b>	
Vapour pressure of the substance during use	6 Pa

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## 7. Short title of exposure scenario

Use in cosmetics, (consumer use)

C; ERC8a; PC28, PC39

## 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	20.000 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

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

Date / Revised: 14.08.2023

Version: 1.0

Date previous version: not applicable

Previous version: none

Date / First version: 14.08.2023

Product: **Velberry®**

(ID no. 30734921/SDS\_GEN\_NL/EN)

Date of print 21.06.2026

<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 v6.0, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,022047
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	0,497065 kg/d
Risk from environmental exposure is driven by soil.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PC28: Perfumes, Fragrances. As no toxicological hazard was identified no human related (worker/consumer) exposure assessment and risk characterization was performed.
<b>Operational conditions</b>	
Vapour pressure of the substance during use	6 Pa

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PC39: Cosmetics, personal care products. As no toxicological hazard was identified no human related (worker/consumer) exposure assessment and risk characterization was performed.
<b>Operational conditions</b>	
Vapour pressure of the substance during use	6 Pa

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### 8. Short title of exposure scenario

Use as fragrance in biocidal products, (consumer use)

C; ERC8a; 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 (no inclusion into or onto article, indoor)
<b>Operational conditions</b>	
Annual amount used in the EU	20.000 kg

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Date of print 21.06.2026

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 v6.0, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,022047
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	0,497065 kg/d
Risk from environmental exposure is driven by soil.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PC8: Biocidal Products. As no toxicological hazard was identified no human related (worker/consumer) exposure assessment and risk characterization was performed.
<b>Operational conditions</b>	
Vapour pressure of the substance during use	6 Pa

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