

**Cosmenyl Carmine OC 100**

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Substance key: 000000734895

Revision Date: 03.06.2022

Version : 1 - 5 / EU

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

**1.1. Product identifier**

**Trade name**

**Cosmenyl Carmine OC 100**

**Material number:** 308103

**Chemical nature:** water based pigment preparation

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

**Relevant identified uses of the substance or mixture**

Industry sector : Personal Care  
Type of use : Colouring agent

**1.3. Details of the supplier of the safety data sheet**

**Identification of the company**

Heubach Colorants Germany GmbH  
Brüningstraße 50  
65929 Frankfurt am Main  
Telephone no. : +49 69 305 13619

**Information about the substance/mixture**

Product Stewardship  
e-mail: SDS.PI.Europe@clariant.com

**1.4. Emergency telephone number**

00800-5121 5121 (24 h)

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**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

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

Not a hazardous substance or mixture.

**2.2 Label elements**

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

Not a hazardous substance or mixture.

**Additional Labelling**

EUH210 Safety data sheet available on request.

**2.3 Other hazards**

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

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

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

No hazards to be specially mentioned.

**SECTION 3: Composition/information on ingredients**

**3.2 Mixtures**

**Components**

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Alcohols, C12-14 ethoxylated, sulfates, sodium salts	68891-38-3 500-234-8	Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412  specific concentration limit Eye Dam./Irrit. 2; H319 5,0 - < 10,0 % Eye Dam./Irrit. 1; H318 >= 10,0 %	>= 5 - < 10
2-Phenoxyethanol	122-99-6 204-589-7 603-098-00-9 01-2119488943-21	Acute Tox. 4; H302 Eye Irrit. 2; H319  Acute toxicity estimate  Acute oral toxicity: 1.394 mg/kg	>= 1 - < 10

For explanation of abbreviations see section 16.

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

- General advice : Get medical advice/ attention if you feel unwell.
- If inhaled : Move the victim to fresh air.  
If you feel unwell, seek medical advice (show the label where possible).
- In case of skin contact : IF ON SKIN: Wash with plenty of soap and water.
- In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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If swallowed : If swallowed, seek medical advice immediately and show this container or label.

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

Risks : No additional hazards are known except those derived from the labelling.

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

Treatment : Treat symptomatically.

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**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

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

Unsuitable extinguishing media : High volume water jet

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

Specific hazards during firefighting : In case of fire hazardous decomposition products may be produced such as:  
Carbon oxides  
Nitrogen oxides (NO<sub>x</sub>)

**5.3 Advice for firefighters**

Special protective equipment for firefighters : Self-contained breathing apparatus

Further information : Wear suitable protective equipment.

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**SECTION 6: Accidental release measures**

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

Personal precautions : Wear suitable protective equipment.

**6.2 Environmental precautions**

Environmental precautions : The product should not be allowed to enter drains, water courses or the soil.

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

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Treat recovered material as described in the section "Disposal"

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considerations".

**6.4 Reference to other sections**

Information regarding Safe handling, see chapter 7.

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**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

- Advice on safe handling : not required under normal use
- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Hygiene measures : Wash hands before breaks and at the end of workday. Use protective skin cream before handling the product. Take off immediately all contaminated clothing and wash it before reuse.

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

- Further information on storage conditions : Keep containers tightly closed in a cool, well-ventilated place. Handle and open container with care. Keep away from flames and sparks. - sensitive to frost - In case of the product becoming opaque, thickening or being frozen due to the effects of cold, allow to thaw slowly at room temperature. Stir briefly before use.

**7.3 Specific end use(s)**

- Specific use(s) : No further recommendations.

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**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

**Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:**

Substance name	End Use	Exposure routes	Potential health effects	Value
Alcohols, C12-14 ethoxylated, sulfates, sodium salts CAS-No.: 68891-38-3	Workers	Dermal	Long-term systemic effects	2750 mg/kg bw/day
	Remarks:DNEL			
	Workers	Inhalation	Long-term systemic effects	175 mg/m3
	Remarks:DNEL			
	General population	Dermal	Long-term systemic effects	1650 mg/kg bw/day
	Remarks:DNEL			
	General	Inhalation	Long-term systemic	52 mg/m3

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	population		effects	
	Remarks:DNEL			
	General population	Oral	Long-term systemic effects	15 mg/kg bw/day
	Remarks:DNEL			
	Workers	Dermal	Long-term local effects	0,132 mg/cm2
	General population	Dermal	Long-term local effects	0,079 mg/cm2
Glycerine CAS-No.: 56-81-5	Workers	Inhalation	Long-term local effects	220 mg/m3
	Remarks:DNEL			
	Consumers	Inhalation	Long-term local effects	132 mg/m3
	Remarks:DNEL			
2-Phenoxyethanol CAS-No.: 122-99-6	Workers	Dermal	Long-term systemic effects	20,83 mg/kg bw/day
	Remarks:DNEL			
	Workers	Inhalation	Long-term systemic effects	8,07 mg/m3
	Remarks:DNEL			
	Workers	Inhalation	Long-term local effects	8,07 mg/m3
	Remarks:DNEL			
	Consumers	Oral	Acute systemic effects	9,23 mg/kg bw/day
	Remarks:DNEL			
	Consumers	Dermal	Long-term systemic effects	10,42 mg/kg bw/day
	Remarks:DNEL			
	Consumers	Inhalation	Long-term systemic effects	2,41 mg/m3
	Remarks:DNEL			
	Consumers	Oral	Long-term systemic effects	9,23 mg/kg bw/day
	Remarks:DNEL			
	Consumers	Inhalation	Long-term local effects	2,41 mg/m3
	Remarks:DNEL			

**Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:**

Substance name	Environmental Compartment	Value
Alcohols, C12-14 ethoxylated, sulfates, sodium salts CAS-No.: 68891-38-3	Fresh water	0,24 mg/l
	salt water	0,024 mg/l
	Water (intermittent release)	0,071 mg/l
	Fresh water sediment	0,9168 mg/kg dry weight (d.w.)
	Marine sediment	0,0917 mg/kg dry weight (d.w.)
	Soil	7,5 mg/kg dry weight (d.w.)

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	Sewage treatment plant	10000 mg/l
Glycerine CAS-No.: 56-81-5	Sewage treatment plant	1000 mg/l
2-Phenoxyethanol CAS-No.: 122-99-6	Fresh water	0,943 mg/l
	salt water	0,094 mg/l
	Water (intermittent release)	3,44 mg/l
	Sewage treatment plant	24,8 mg/l
	Fresh water sediment	7,2366 mg/kg dry weight (d.w.)
	Marine sediment	0,7237 mg/kg dry weight (d.w.)
	Soil	1,26 mg/kg dry weight (d.w.)

## 8.2 Exposure controls

### Engineering measures

Handle only in a place equipped with local exhaust (or other appropriate exhaust).

### Personal protective equipment

Eye protection : Safety glasses

Hand protection

Remarks : Nitrile rubber Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Skin and body protection : Wear suitable protective equipment.

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Protective measures : Wear suitable protective equipment.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state : dispersion

Colour : red

Odour : odourless

Odour Threshold : not required

Melting point : Not applicable

Boiling point : 100 °C

Flammability : Not applicable

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Upper explosion limit / upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	not determined
Flash point	:	100 °C Method: closed cup
Auto-ignition temperature	:	not determined
Decomposition temperature	:	The product does not contain any chemical groups which suggest self-reactive properties, nor is the estimated SADT less than 75 °C, nor is the exothermic decomposition energy higher than 300 J/g.
pH	:	8,4
Viscosity		
Viscosity, dynamic	:	400 mPa.s (23 °C)
Viscosity, kinematic	:	not determined
Solubility(ies)		
Water solubility	:	miscible
Partition coefficient: n-octanol/water	:	not determined
Vapour pressure	:	not determined
Relative density	:	no data available
Density	:	1,14 g/cm <sup>3</sup> (23 °C)
Relative vapour density	:	not determined
Particle characteristics		
Particle size	:	Not applicable

**9.2 Other information**

Explosives	:	no data available
Oxidizing properties	:	no data available
Flammable solids		
Burning number	:	Not applicable
Metal corrosion rate	:	no data available
Evaporation rate	:	not determined

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Minimum ignition energy : not determined  
Molecular weight : no data available

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**SECTION 10: Stability and reactivity**

**10.1 Reactivity**

No dangerous reaction known under conditions of normal use.

**10.2 Chemical stability**

Stable under normal conditions.

**10.3 Possibility of hazardous reactions**

Hazardous reactions : No dangerous reaction known under conditions of normal use. Stable

**10.4 Conditions to avoid**

Conditions to avoid : None known.

**10.5 Incompatible materials**

Materials to avoid : no data available

**10.6 Hazardous decomposition products**

No decomposition if stored and applied as directed.

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**SECTION 11: Toxicological information**

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

**Acute toxicity**

**Product:**

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity : Remarks: no data available

**Components:**

**Alcohols, C12-14 ethoxylated, sulfates, sodium salts:**

Acute oral toxicity : LD50 (Rat, male and female): 2.870 mg/kg  
Method: OECD Test Guideline 401  
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity : LD50 (Rat, male and female): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal



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toxicity

**2-Phenoxyethanol:**

Acute oral toxicity : LD50 (Rat, male and female): 1.840 - 4.070 mg/kg  
Method: OECD Test Guideline 401  
GLP: no

Acute toxicity estimate: 1.394 mg/kg  
Method: Acute toxicity estimate according to Regulation (EC)  
No. 1272/2008

Assessment: The component/mixture is moderately toxic after single ingestion.

Acute inhalation toxicity : LC50 (Rat, male and female): > 1000 mg/m<sup>3</sup>  
Exposure time: 14 d  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 412  
GLP: yes  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2.214 mg/kg  
Method: Other  
GLP: no  
Assessment: The substance or mixture has no acute dermal toxicity

**Skin corrosion/irritation**

**Product:**

Species : Rabbit  
Result : No skin irritation  
Remarks : The toxicological data has been taken from products of similar composition.

**Components:**

**Alcohols, C12-14 ethoxylated, sulfates, sodium salts:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Irritating to skin.

**2-Phenoxyethanol:**

Species : Rabbit  
Exposure time : 4 h  
Method : OECD Test Guideline 404  
Result : No skin irritation  
GLP : no

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**Serious eye damage/eye irritation**

**Product:**

Species : rabbit eye  
Result : No eye irritation  
Remarks : The toxicological data has been taken from products of similar composition.

**Components:**

**Alcohols, C12-14 ethoxylated, sulfates, sodium salts:**

Method : OECD Test Guideline 405  
Result : Risk of serious damage to eyes.

**2-Phenoxyethanol:**

Species : Rabbit  
Exposure time : 15 d  
Method : OECD Test Guideline 405  
Result : Irritating to eyes.  
GLP : no

**Respiratory or skin sensitisation**

**Product:**

Remarks : no data available

**Components:**

**Alcohols, C12-14 ethoxylated, sulfates, sodium salts:**

Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Not a skin sensitizer.

Assessment : Causes skin irritation., Causes serious eye damage.

**2-Phenoxyethanol:**

Test Type : Maximisation Test  
Exposure routes : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Not a skin sensitizer.  
GLP : yes

Assessment : Harmful if swallowed.

**Germ cell mutagenicity**

**Product:**

Genotoxicity in vitro : Remarks: no data available

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Germ cell mutagenicity-  
Assessment : No information available.

**Components:**

**Alcohols, C12-14 ethoxylated, sulfates, sodium salts:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Concentration: 0, 11, 56, 280, 1400, 7000 µg/  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes

Test Type: Mammalian cell gene mutation assay  
Test system: mouse lymphoma cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: yes

Test Type: Chromosome aberration test in vitro  
Test system: Bone marrow cells  
Metabolic activation: with and without metabolic activation  
Result: negative

Genotoxicity in vivo : Test Type: Cytogenetic assay  
Species: Mouse (male and female)  
Strain: CD1  
Cell type: Bone marrow cells  
Application Route: oral (gavage)  
Dose: 1000, 2000 mg/kg bw/day  
Method: OECD Test Guideline 475  
Result: negative

**2-Phenoxyethanol:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Concentration: 20 - 5000 µg/plate  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes

Test Type: Chromosome aberration test in vitro  
Test system: Chinese hamster lung cells  
Concentration: 43,8 - 1400 µg/ml  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative  
GLP: yes

Test Type: HGPRT assay

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Test system: Chinese hamster lung cells  
Concentration: 43,8 - 1400 µg/ml  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: yes

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse (male)  
Strain: NMRI  
Cell type: Bone marrow  
Application Route: Intraperitoneal injection  
Exposure time: 24 - 48 h  
Dose: 1x 125-250-500 mg/kg  
Method: OECD Test Guideline 474  
Result: negative  
GLP: yes

Germ cell mutagenicity-  
Assessment : In vitro tests did not show mutagenic effects, In vivo tests did  
not show mutagenic effects

**Carcinogenicity**

**Product:**

Carcinogenicity -  
Assessment : No information available.

**Components:**

**2-Phenoxyethanol:**

Carcinogenicity -  
Assessment : No information available.

**Reproductive toxicity**

**Product:**

Reproductive toxicity -  
Assessment : No information available.

**Components:**

**Alcohols, C12-14 ethoxylated, sulfates, sodium salts:**

Effects on fertility : Test Type: Two-generation study  
Species: Rat, male and female  
Strain: Sprague-Dawley  
Application Route: Drinking water  
Dose: 30, 100, 300 mg/kd bw/day  
General Toxicity - Parent: NOAEL: 300 mg/kg body weight  
General Toxicity F1: NOAEL: 300 mg/kg body weight  
Method: OECD Test Guideline 416  
GLP: yes

Effects on foetal : Species: Rat, female

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development  
Strain: Sprague-Dawley  
Application Route: oral (gavage)  
Dose: 100, 300, 1000 mg/kg bw/day  
General Toxicity Maternal: NOAEL: > 1.000 mg/kg body weight  
Embryo-foetal toxicity: NOAEL: > 1.000 mg/kg body weight  
Method: OECD Test Guideline 414  
GLP: yes

**2-Phenoxyethanol:**

Effects on fertility : Test Type: Two-generation study  
Species: Mouse, male and female  
Strain: CD1  
Application Route: oral (feed)  
Dose: 0,25 - 1,25 - 2,5 % in diet  
General Toxicity - Parent: NOAEL: 1.875 mg/kg body weight  
General Toxicity F1: NOAEL: 375 mg/kg body weight  
General Toxicity F2: NOAEL: 375 mg/kg body weight  
Method: Other  
GLP: yes

Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

**STOT - single exposure**

**Product:**

Remarks : no data available

**STOT - repeated exposure**

**Product:**

Remarks : no data available

**Components:**

**2-Phenoxyethanol:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**Repeated dose toxicity**

**Product:**

Remarks : This information is not available.

**Components:**

**Alcohols, C12-14 ethoxylated, sulfates, sodium salts:**

Species : Rat, male and female  
NOAEL : > 225 mg/kg  
Application Route : oral (gavage)  
Exposure time : 90 d

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Number of exposures : daily  
Dose : 25, 75, 225 mg/kg bw/day  
Control Group : yes  
Method : OECD Test Guideline 408  
GLP : yes

Species : Mouse, male and female  
NOAEL : > 6,91 mg/kg  
Exposure time : 91 d  
Number of exposures : 5 per week  
Dose : 2,38, 6,91 mg/day  
Control Group : yes  
Method : OECD Test Guideline 411

**2-Phenoxyethanol:**

Species : Rat, male and female  
NOAEL : 369 mg/kg  
Application Route : oral (gavage)  
Exposure time : 13 w  
Number of exposures : daily  
Dose : 1250-2500-5000-10000-20000mg/l  
Control Group : yes  
Method : OECD Test Guideline 408  
GLP : yes

Species : Rat, male and female  
NOAEL : 0,0482 mg/l  
LOAEL : 0,246 mg/l  
Application Route : Inhalation  
Exposure time : 14 d  
Number of exposures : 6 h/d, 5 days/w  
Dose : 40 - 200 - 1000 mg/m<sup>3</sup>  
Control Group : yes  
Method : OECD Test Guideline 412  
GLP : yes

Species : Rabbit, male and female  
NOAEL : 500 mg/kg  
Application Route : Skin contact  
Exposure time : 13 w  
Number of exposures : 6 h/d, 5 days/w  
Dose : 50 - 150 - 500 mg/kg  
Control Group : yes  
Method : OECD Test Guideline 411  
GLP : yes

**Aspiration toxicity**

**Product:**

no data available

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**Components:**

**2-Phenoxyethanol:**

No aspiration toxicity classification

**11.2 Information on other hazards**

**Endocrine disrupting properties**

**Product:**

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

**Further information**

**Product:**

Remarks : no data available

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**SECTION 12: Ecological information**

**12.1 Toxicity**

**Product:**

Toxicity to fish : Remarks: no data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: no data available

Toxicity to algae/aquatic plants : Remarks: no data available

Toxicity to fish (Chronic toxicity) : Remarks: no data available

Toxicity to microorganisms : Remarks: no data available

**Components:**

**Alcohols, C12-14 ethoxylated, sulfates, sodium salts:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 7,1 mg/l  
Exposure time: 96 h  
Test Type: flow-through test  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 7,4 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202

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Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 27,7 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201

EC10 (Desmodesmus subspicatus (green algae)): 4,4 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : NOEC: 0,14 mg/l  
Exposure time: 28 d  
Species: Oncorhynchus mykiss (rainbow trout)  
Test Type: flow-through test  
Method: OECD Test Guideline 204

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,27 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: flow-through test  
Method: OECD Test Guideline 211  
Remarks: By analogy with a product of similar composition

**Ecotoxicology Assessment**

Acute aquatic toxicity : Toxic to aquatic life.

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

**2-Phenoxyethanol:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 344 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: flow-through test  
Analytical monitoring: yes  
Method: Other  
GLP: no data available

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 500 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: no  
Method: OECD Test Guideline 202  
GLP: no  
Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): 625 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Method: Directive 67/548/EEC, Annex V, C.3.



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GLP: yes

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

- Toxicity to microorganisms : EC50 (activated sludge): > 1.000 mg/l  
End point: Bacteria toxicity (respiration inhibition)  
Exposure time: 0,5 h  
Test Type: aquatic  
Analytical monitoring: no  
Method: OECD Test Guideline 209  
GLP: yes  
Remarks: The details of the toxic effect relate to the nominal concentration.
- Toxicity to fish (Chronic toxicity) : NOEC: 24 mg/l  
End point: mortality  
Exposure time: 34 d  
Species: Pimephales promelas (fathead minnow)  
Test Type: flow-through test  
Analytical monitoring: yes  
Method: OECD Test Guideline 210  
GLP: yes
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 9,43 mg/l  
End point: Reproduction rate  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: semi-static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 211  
GLP: yes
- Toxicity to soil dwelling organisms : Test Type: artificial soil  
LC50: > 1.000 mg/kg  
Exposure time: 14 d  
End point: mortality  
Species: Eisenia fetida (earthworms)  
Method: OECD Test Guideline 207  
GLP:yes  
Remarks: The details of the toxic effect relate to the nominal concentration.
- Plant toxicity : EC50: 107 mg/kg  
Exposure time: 19 d  
Analytical monitoring: no  
Method: OECD Guide-line 208  
GLP:yes
- EC50: 37 mg/kg  
Exposure time: 19 d  
Species: Brassica napus  
Analytical monitoring: no  
Method: OECD Guide-line 208  
GLP:yes

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EC50: 235 mg/kg  
Exposure time: 19 d  
Species: Brassica napus  
Analytical monitoring: no  
Method: OECD Guide-line 208  
GLP:yes

Sediment toxicity : Remarks: Not applicable

Toxicity to terrestrial organisms : Remarks: Not applicable

**12.2 Persistence and degradability**

**Product:**

Biodegradability : Remarks: no data available

**Components:**

**Alcohols, C12-14 ethoxylated, sulfates, sodium salts:**

Biodegradability : Test Type: aerobic  
Result: Readily biodegradable.  
Biodegradation:  $\geq 77$  %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D

**2-Phenoxyethanol:**

Biodegradability : Test Type: aerobic  
Inoculum: activated sludge  
Concentration: 30 mg/l  
Result: Readily biodegradable.  
Biodegradation: 90 %  
Related to: Biochemical Oxygen Demand (BOD)  
Exposure time: 28 d  
Method: OECD Test Guideline 301F  
GLP: yes

Test Type: aerobic  
Inoculum: activated sludge  
Concentration: 20 mg DOC/l  
Result: Readily biodegradable.  
Biodegradation:  $> 90$  %  
Related to: Dissolved organic carbon (DOC)  
Exposure time: 15 d  
Method: OECD Test Guideline 301A  
GLP: yes

Physico-chemical removability : Remarks: Biodegradable

Stability in water : Test Type: abiotic  
Degradation half life (DT50):  $> 365$  d (50 °C)

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pH: 4 - 9  
Method: OECD Test Guideline 111  
GLP: yes

Photodegradation : Test Type: air  
Light source: Sunlight  
Sensitiser: OH  
Concentration: 500000 molecules/cm<sup>3</sup>  
Rate constant: 3,26727E-11 cm<sup>3</sup>/(molecule\*sec)  
Degradation (indirect photolysis): 50 % Degradation half life:  
11,8 h  
Method: calculated  
GLP: no

Test Type: water  
Light source: Other  
Light spectrum: 298 - 400 nm  
Degradation (direct photolysis): 50 % Degradation half life:  
5.120 d  
GLP: No information available.

### 12.3 Bioaccumulative potential

**Product:**

Bioaccumulation : Remarks: no data available

**Components:**

**2-Phenoxyethanol:**

Bioaccumulation : Species: Other  
Bioconcentration factor (BCF): 0,35  
Method: calculated  
GLP: no

Partition coefficient: n-  
octanol/water : log Pow: 1,2 (23 °C)  
pH: 7  
Method: Regulation (EC) No. 440/2008, Annex, A.8  
GLP: yes

### 12.4 Mobility in soil

**Components:**

**2-Phenoxyethanol:**

Distribution among  
environmental compartments : adsorption  
Medium: water - soil  
log Koc: 1,6  
Method: OECD Test Guideline 121

### 12.5 Results of PBT and vPvB assessment

**Product:**

Assessment : This substance/mixture contains no components considered

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to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**Components:**

**2-Phenoxyethanol:**

Assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

**12.6 Endocrine disrupting properties**

**Product:**

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

**12.7 Other adverse effects**

**Product:**

Environmental fate and pathways : no data available

Additional ecological information : no data available

**Components:**

**2-Phenoxyethanol:**

Environmental fate and pathways : no data available

Additional ecological information : The product should not be allowed to enter drains, water courses or the soil.

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**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

Product : Dispose of in accordance with the European Directives on waste and hazardous waste.

Contaminated packaging : This material and its container must be disposed of in a safe way.

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**SECTION 14: Transport information**

**Section 14.1. to 14.5.**

ADR not restricted

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<b>ADN</b>	not restricted
<b>RID</b>	not restricted
<b>IATA</b>	not restricted
<b>IMDG</b>	not restricted

**14.6. Special precautions for user**

See sections 6 to 8 of this Safety Data Sheet.

**14.7. Maritime transport in bulk according to IMO instruments**

No transport as bulk according IBC - Code.

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**SECTION 15: Regulatory information**

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	: Not applicable
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	: Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	: Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	: Not applicable
Council Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors	: Neither banned nor restricted
Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals	: Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	: Not applicable

**Other regulations:**

Apart from the data/regulations specified in this chapter, no further information is available concerning safety, health and environmental protection.

**15.2 Chemical safety assessment**

No Chemical Safety Assessment (CSA) is yet available for the substance, or for the component substances, contained in this product.

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**SECTION 16: Other information**

**Full text of H-Statements**

H302	:	Harmful if swallowed.
H315	:	Causes skin irritation.
H318	:	Causes serious eye damage.
H319	:	Causes serious eye irritation.
H412	:	Harmful to aquatic life with long lasting effects.

**Full text of other abbreviations**

Acute Tox.	:	Acute toxicity
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Eye Dam.	:	Serious eye damage
Eye Irrit.	:	Eye irritation
Skin Irrit.	:	Skin irritation

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

**Further information**

**SAFETY DATA SHEET**  
according to Regulation (EC) No. 1907/2006



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