

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifier

**Commercial Product Name**  
**MARINFLOC FLOCBOOSTER**

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

**Use of the Substance/Mixture**

Flocculating agent

**Recommended restrictions on use**

For professional and industrial installation use only.

### 1.3 Details of the supplier of the safety data sheet

Marinfloc AB Industrivägen 10  
472 95 Varekil (SWEDEN)

+46 (0)304-60 33 00

### 1.4 Emergency telephone number

Please call your local emergency services and refer to this MSDS

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EU) 1272/2008(CLP)**

Eye irritation; Category 2; Causes serious eye irritation.

### 2.2 Label elements

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

**Hazard pictograms**



**Signal word**

: Warning

**Hazard statements**

: H319

Causes serious eye irritation.

## Marinfloc Flocbooster Material Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 6/6/2025 Revision date: 6/6/2026 Version: 24,1

**Precautionary statements :**

**Prevention:**  
P264 Wash hands thoroughly after handling.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**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.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.

### 2.3 Other hazards

**Advice;** Contaminated surfaces will be extremely slippery.

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

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

Chemical nature of the mixture Anionic Polyacrylamide, emulsion.

| CAS/EU number/REACH Registration Number    | Chemical name of the substance                                        | Concentration | Classification according to Regulation (EU) 1272/2008(CLP)                                |
|--------------------------------------------|-----------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------------|
| 01-2119456620-43;<br>01-2119484819-18-0001 | Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics | 20 - 30 %     | Asp. Tox. Category 1,H304 EUH066                                                          |
| 68439-50-9                                 | Alcohols, C12-14, ethoxylated                                         | 0 - 2,99 %    | Acute Tox. Category 4,H302<br>Eye Dam. Category 1,H318<br>Aquatic Chronic Category 3,H412 |
| 68551-12-2                                 | Alcohols, C12-16, ethoxylated                                         | 0 - 2,99 %    | Acute Tox. Category 4,H302<br>Eye Dam. Category 1,H318<br>Aquatic Chronic Category 3,H412 |

68002-97-1

Alcohols, C10-16, ethoxylated

0 - 2,99 %

Acute Tox. Category 4,H302  
Eye Dam. Category 1,H318  
Aquatic Chronic Category  
3,H412

Components listed above that have a zero minimum and a common maximum range are interchangeably used components based on availability. Only one of these components is contained in the product up to the maximum amount noted.

#### Further information

For the full text of the H-Statements mentioned in this Section, see Section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

#### General advice

Show this safety data sheet to the doctor in attendance.

#### Inhalation

Remove to fresh air. If there is difficulty in breathing, medical advice is required.

#### Skin contact

Take off contaminated clothing and shoes immediately. Wash off with plenty of water. Consult a physician if necessary.

#### Eye contact

Rinse thoroughly with plenty of water, also under the eyelids. Obtain prompt medical consultation, preferably from an ophthalmologist.

#### Ingestion

Rinse mouth with water. Call a physician immediately. Do NOT induce vomiting.

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

Symptoms : No information available.

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

Treatment : Symptomatic treatment.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

Extinguishing media : Water spray  
Dry chemical  
Carbon dioxide (CO<sub>2</sub>)  
Keep containers and surroundings cool with water spray.  
Unsuitable : Do not use a solid water stream as it may scatter and spread fire.  
extinguishing media

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

Burning may produce toxic and irritant gases.

## **5.3 Advice for firefighters**

Wear self-contained breathing apparatus and protective suit.

Prevent fire extinguishing water from contaminating surface water or the ground water system.

# **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

For personal protection see section 8. Avoid contact with skin, eyes and clothing. Where the exposure level is not known, wear approved, positive pressure, self-contained respirator. Where the exposure level is known, wear approved respirator suitable for the level of exposure.

## **6.2 Environmental precautions**

Prevent leakages from entering drains and ditches that lead to natural waterways.

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

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water.

## **6.4 Reference to other sections**

For personal protection see section 8.

# **SECTION 7: HANDLING AND STORAGE**

## **7.1 Precautions for safe handling**

Keep absorbent material as a precaution against spills.

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

Store at room temperature in the original container.

Flashpoint determination was performed using a Pensky Martens type closed cup method. The method indicates a flash point greater than 93,3° C (200° F). Although there was no flashpoint detected below 93,3° C (200° F) some flammable vapours were evolved during the test as evidenced by the enlargement of the flame. Therefore caution should be exercised during storage and handling.

### **Materials for packaging**

Unsuitable material: To avoid product degradation and equipment corrosion, do not use iron, copper or aluminium containers or equipment.

### **Materials to avoid:**

Strong oxidizing agents

### 7.3 Specific end use(s)

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### 8.1.1 Limit values in other countries

**Finland:**

**Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics**

FI OEL, RCP-method (supplier):, TWA = 165 ppm = 1 200 mg/m<sup>3</sup>, Vapour, total hydrocarbons

**Sweden:**

**Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics**

SE AFS, RCP-method (supplier):, NGV = 165 ppm = 1 200 mg/m<sup>3</sup>, Vapour, total hydrocarbons

**Germany:**

**Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics**

DE TRGS 900, RCP-method (supplier):, AGW = 165 ppm = 1 200 mg/m<sup>3</sup>, Vapour, total hydrocarbons

**Austria:**

**Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics**

AT OEL, RCP-method (supplier):, TRK-TMW = 165 ppm = 1 200 mg/m<sup>3</sup>, Vapour, total hydrocarbons

**Belgium:**

**Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics**

BE OEL, RCP-method (supplier):, TWA = 165 ppm = 1 200 mg/m<sup>3</sup>, Vapour, total hydrocarbons

**Switzerland:**

**Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics**

**Cyprus:**

**Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics**

CY OEL, RCP-method (supplier):, TWA = 165 ppm = 1 200 mg/m<sup>3</sup>, Vapour, total hydrocarbons

**Czech Republic:**

**Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics**

CZ OEL, RCP-method (supplier):, TWA = 165 ppm = 1 200 mg/m<sup>3</sup>, Vapour, total hydrocarbons

**Denmark:**

**Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics**

DK OEL, RCP-method (supplier):, TWA = 165 ppm = 1 200 mg/m<sup>3</sup>, Vapour, total hydrocarbons

**Estonia:**

**Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics**

EE OEL, RCP-method (supplier):, TWA = 165 ppm = 1 200 mg/m<sup>3</sup>, Vapour, total hydrocarbons

**Spain:**

**Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics**

ES VLA, RCP-method (supplier):, TWA = 165 ppm = 1 200 mg/m<sup>3</sup>, Vapour, total hydrocarbons

**France:**

**Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics**

FR VLE, RCP-method (supplier):, VME = 165 ppm = 1 200 mg/m<sup>3</sup>, Vapour, total hydrocarbons

**Greece:**

**Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics**

GR OEL, RCP-method (supplier):, TWA = 165 ppm = 1 200 mg/m<sup>3</sup>, Vapour, total hydrocarbons

**Hungary:**

**Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics**

HU OEL, RCP-method (supplier):, TWA = 165 ppm = 1 200 mg/m<sup>3</sup>, Vapour, total hydrocarbons

**Ireland:**

**Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics**

IE OEL, RCP-method (supplier):, TWA = 165 ppm = 1 200 mg/m<sup>3</sup>, Vapour, total hydrocarbons

**Iceland:**

**Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics**

IS OEL, RCP-method (supplier):, TWA = 165 ppm = 1 200 mg/m<sup>3</sup>, Vapour, total hydrocarbons

**Italy:**

**Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics**

IT OEL, RCP-method (supplier):, TWA = 165 ppm = 1 200 mg/m<sup>3</sup>, Vapour, total hydrocarbons

**Lithuania:**

**Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics**

LT OEL, RCP-method (supplier):, TWA = 165 ppm = 1 200 mg/m<sup>3</sup>, Vapour, total hydrocarbons

**Luxembourg:**

**Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics**

LU OEL, RCP-method (supplier):, TWA = 165 ppm = 1 200 mg/m<sup>3</sup>, Vapour, total hydrocarbons

**Latvia:**

**Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics**

LV OEL, RCP-method (supplier):, TWA = 165 ppm = 1 200 mg/m<sup>3</sup>, Vapour, total hydrocarbons

**Malta:**

**Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics**

MT OEL, RCP-method (supplier):, TWA = 165 ppm = 1 200 mg/m<sup>3</sup>, Vapour, total hydrocarbons

**Netherlands:**

**Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics**

NL OEL, RCP-method (supplier):, TLV-8hr = 165 ppm = 1 200 mg/m<sup>3</sup>, Vapour, total hydrocarbons

**Norway:**

**Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics**

NO OEL, RCP-method (supplier):, TWA = 165 ppm = 1 200 mg/m<sup>3</sup>, Vapour, total hydrocarbons

**Poland:**

**Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics**

PL OEL, RCP-method (supplier):, TWA = 165 ppm = 1 200 mg/m<sup>3</sup>, Vapour, total hydrocarbons

**Portugal:**

**Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics**

PT OEL, RCP-method (supplier):, VLE-MP = 165 ppm = 1 200 mg/m<sup>3</sup>, Vapour, total hydrocarbons

**Slovenia:**

**Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics**

SI OEL, RCP-method (supplier):, MV = 165 ppm = 1 200 mg/m<sup>3</sup>, Vapour, total hydrocarbons

**Slovakia:**

**2-Propenoic acid, ammonium salt, polymer with 2-propenamide**

SK OEL, 2006-06-01, TWA = 5 mg/m<sup>3</sup>, total compact aerosols

**Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics**

SK OEL, RCP-method (supplier):, TWA = 165 ppm = 1 200 mg/m<sup>3</sup>, Vapour, total hydrocarbons

**Romania:**

**Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics**

RO OEL, RCP-method (supplier):, TWA = 165 ppm = 1 200 mg/m<sup>3</sup>, Vapour, total hydrocarbons

## 8.2 Exposure controls

### 8.2.1 Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes and clothing. Do not breathe vapour. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation.

Keep away from tobacco products. Keep away from food and drink. Wash hands before breaks and immediately after handling the product.

### 8.2.2 Individual protection measures, such as personal protective equipment

#### Hand protection

Glove material: Nitrile rubber

Glove material: Impervious gloves, Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Protective gloves complying with EN 374.

#### Eye protection

Tightly fitting safety goggles

(EN 166)

**Skin and body protection**

Chemical resistant protective clothing. Chemical resistant boots.

**Respiratory protection**

Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Recommended Filter type: (filter A2-P2) (EN 14387)

**8.2.3 Environmental exposure controls**

No data available

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

**General Information (appearance, odour)**

|                 |                              |
|-----------------|------------------------------|
| Physical state  | liquid ( 20 °C , 1 013 hPa), |
| Colour          | white                        |
| Odour           | sulphur dioxide              |
| Odour Threshold | not determined               |

**Important health safety and environmental information**

|                             |                           |
|-----------------------------|---------------------------|
| pH                          | 4 - 6 ( 0,5 %)            |
| Boiling point/boiling range | ca. 100 °C                |
| Flash point                 | > 100 °C (Pensky-Martens) |

|                  |                   |
|------------------|-------------------|
| Evaporation rate | No data available |
|------------------|-------------------|

Flammability (solid, gas) :

**Explosive properties:**

|                       |                   |
|-----------------------|-------------------|
| Lower explosion limit | No data available |
| Upper explosion limit | No data available |

|                 |                   |
|-----------------|-------------------|
| Vapour pressure | No data available |
|-----------------|-------------------|

|                         |                   |
|-------------------------|-------------------|
| Relative vapour density | No data available |
|-------------------------|-------------------|

|                  |                           |
|------------------|---------------------------|
| Density          | ca. 1,0 g/cm <sup>3</sup> |
| Relative density | No data available         |

Solubility(ies):

|                                               |                                                          |
|-----------------------------------------------|----------------------------------------------------------|
| <b>Water solubility</b>                       | dispersible                                              |
| <b>Partition coefficient: n-octanol/water</b> | Not applicable                                           |
| <b>Auto-ignition temperature</b>              | No data available                                        |
| <b>Thermal decomposition</b>                  | No data available                                        |
| <b>Viscosity:</b>                             |                                                          |
| <b>Viscosity, kinematic</b>                   | > 20,5 mm <sup>2</sup> /s ( 40 °C)                       |
| <b>Oxidizing</b>                              | The substance or mixture is not classified as oxidizing. |

## 9.2 Other information

|                        |                   |
|------------------------|-------------------|
| <b>Surface tension</b> | No data available |
|------------------------|-------------------|

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

Not classified as a reactivity hazard.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No data available

### 10.4 Conditions to avoid

Conditions to avoid : Stable under recommended storage conditions.

### 10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents

### 10.6 Hazardous decomposition products

Hazardous decomposition products : Carbon oxides (CO<sub>x</sub>)  
Ammonia  
Nitrogen oxides (NO<sub>x</sub>)

Thermal decomposition : Note: No data available

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity

**Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics:**

LD50/Oral/Rat: > 15 000 mg/kg

LC50/Inhalation/4 h/Rat: = 4951 mg/m<sup>3</sup>

LD50/Dermal/Rabbit: > 3 160 mg/kg

**Alcohols, C12-14, ethoxylated:**

LD50/Oral/Rat: 300 - 2 000 mg/kg

LD50/Dermal/Rabbit: > 2 000 mg/kg

**Alcohols, C12-16, ethoxylated:**

Acute toxicity estimate/Oral/: 1 391 mg/kg

Acute toxicity estimate/Dermal: 2 525 mg/kg

**Alcohols, C10-16, ethoxylated:**

LD50/Dermal/Rabbit: 3 870 mg/kg

#### Irritation and corrosion

Skin: OECD Test Guideline 439:

No skin irritation

Eyes: Calculation method:

Causes serious eye irritation.

**Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics:**

Skin: OECD Test Guideline 404: No skin irritation

Eyes: OECD Test Guideline 405: No eye irritation

**Alcohols, C12-14, ethoxylated:**

Skin: No skin irritation

Remarks: Literary reference

Eyes: Causes serious eye damage.

Remarks: Literary reference

**Alcohols, C12-16, ethoxylated:**

Skin: Rabbit/OECD Test Guideline 404:

No skin irritation

Eyes: Rabbit/OECD Test Guideline 405:

Causes serious eye damage.

**Alcohols, C10-16, ethoxylated:**

Skin: Rabbit/24 h:

The substance or mixture is not classified.

Eyes: Rabbit:

Causes serious eye damage.

### **Sensitisation**

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

**Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics:**

/OECD Test Guideline 406 Does not cause skin sensitisation.

**Alcohols, C12-14, ethoxylated:**

Remarks: Literary reference

Does not cause skin sensitisation.

**Alcohols, C12-16, ethoxylated:**

Guinea pig/OECD Test Guideline 406

Does not cause skin sensitisation.

**Alcohols, C10-16, ethoxylated:**

Remarks: No data available

### **Long term toxicity**

Repeated dose toxicity

Remarks: No data available

Carcinogenicity

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

Reproductive toxicity

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

**Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics:**

Repeated dose toxicity:

Carcinogenicity

No known effect.

Mutagenicity

In vitro tests did not show mutagenic effects

In vivo tests did not show mutagenic effects

Reproductive toxicity

No known effect.

**Alcohols, C12-14, ethoxylated:**

Carcinogenicity

Remarks: Literary reference  
No known effect.

Mutagenicity

Remarks: Literary reference  
No known effect.

Reproductive toxicity

Remarks: Literary reference  
No known effect.

**Alcohols, C12-16, ethoxylated:**

Repeated dose toxicity:

Ingestion/Rat/male and female/90 d/Sub-chronic toxicity study (90-day):  
NOAEL: 100 mg/kg

Carcinogenicity

No known effect.

Mutagenicity

No known effect.

Reproductive toxicity

No known effect.

**Alcohols, C10-16, ethoxylated:**

Repeated dose toxicity:

Remarks: No data available

Carcinogenicity

Remarks: No data available

Mutagenicity

Remarks: No data available

Reproductive toxicity

Remarks: No data available

**STOT - single exposure**

The substance or mixture is not classified as specific target organ toxicant, single exposure.

**Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics**

The substance or mixture is not classified as specific target organ toxicant, single exposure.

**Alcohols, C12-14, ethoxylated**

The substance or mixture is not classified as specific target organ toxicant, single exposure.

**Alcohols, C12-16, ethoxylated**

No data available

**Alcohols, C10-16, ethoxylated**

No data available

**STOT - repeated exposure**

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

**Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics**

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

**Alcohols, C12-14, ethoxylated**

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

**Alcohols, C12-16, ethoxylated**

No data available

**Alcohols, C10-16, ethoxylated**

No data available

**Aspiration toxicity**

No aspiration toxicity classification

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

#### Aquatic toxicity

LC50/96 h/Oncorhynchus mykiss (rainbow trout)/Acute toxicity/OECD Test Guideline 203: > 100 mg/l  
Remarks: similar product, ;, fresh water

LC50/96 h/Branchydanio rerio (zebra fish)/Acute toxicity/OECD Test Guideline 203: > 100 mg/l  
Remarks: similar product, ;, fresh water

EC50/48 h/Daphnia magna (Water flea)/Immobilization/OECD Test Guideline 202: > 100 mg/l  
Remarks: similar product

EC50/48 h/Ceriodaphnia dubia (Water flea)/Immobilization/OECD Test Guideline 202: > 100 mg/l  
Remarks: similar product

IC50/72 h/Green algae (Selenastrum capricornutum)/Growth inhibition/OECD Test Guideline 201: > 100 mg/l  
Remarks: similar product

**Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics:**

LL50/96 h/Oncorhynchus mykiss (rainbow trout)/Acute toxicity/OECD Test Guideline 203: > 1 000 mg/l

LL50/48 h/Daphnia magna (Water flea)/Acute toxicity/OECD Test Guideline 202: > 1 000 mg/l

EL50/72 h/Pseudokirchneriella subcapitata (green algae)/Acute toxicity: > 1 000 mg/l

**Alcohols, C12-14, ethoxylated:**

LC50/Cyprinus carpio (Carp)/OECD Test Guideline 203: > 1 mg/l

/48 h/Daphnia magna (Water flea)/OECD Test Guideline 202: > 1 mg/l

EC50/72 h/Desmodesmus subspicatus (green algae)/OECD Test Guideline 201: > 1 - 10 mg/l

**Alcohols, C12-16, ethoxylated:**

LC50/96 h/Cyprinus carpio (Carp)/Other guidelines: 3 mg/l

Remarks: fresh water

EC20/30 d/Pimephales promelas (fathead minnow)/Other guidelines: 1,58 mg/l

Remarks: fresh water

EC50/48 h/Daphnia magna (Water flea)/Other guidelines: 1,9 mg/l

Remarks: fresh water

EC20/21 d/Daphnia magna (Water flea)/Other guidelines: 0,98 mg/l

Remarks: fresh water

ErC50/72 h/Desmodesmus subspicatus (green algae)/Other guidelines: 2,2 mg/l

### Toxicity to other organisms

No data available

**Alcohols, C12-14, ethoxylated:**

/activated sludge: 140 mg/l

**Alcohols, C12-16, ethoxylated:**

EC50/16,9 h/Pseudomonas putida/DIN 38412: > 10 000 mg/l

Remarks: fresh water

### 12.2 Persistence and degradability

Biological degradability:

CO2 Evolution Test/OECD Test Guideline 301B:

The polymeric ingredient is not readily biodegradable.

**Biological degradability:**

**Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics:**

/OECD Test Guideline 301F/28 d: 69 %

Readily biodegradable

/OECD Test Guideline 306/28 d: 69 %

Readily biodegradable

**Alcohols, C12-14, ethoxylated:**

/OECD Test Guideline 301 A/28 d: > 70 %

/OECD Test Guideline 301B/28 d: > 60 %

Remarks: Literary reference

Readily biodegradable

### 12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water: Not applicable

**Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics:**

Bioconcentration factor (BCF)/QSAR: < 500

Partition coefficient: n-octanol/water: log Pow: > 6,5 (OECD Test Guideline 117)

**Alcohols, C12-14, ethoxylated:**

Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water: Not applicable

**Alcohols, C12-16, ethoxylated:**

Bioconcentration factor (BCF)/Pimephales promelas (fathead minnow)/3 d: 12,7

Remarks: Fresh water

**12.4. Mobility in soil**

**Mobility**

Water solubility: dispersible

Surface tension: No data available

**Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics:**

Vapour pressure: 0,02 kPa ( 20 °C) (Calculation method)

Water solubility: < 1 mg/l (Calculation method)

Surface tension: 26,4 mN/m ( 25 °C) ( )

**Alcohols, C12-14, ethoxylated:**

Vapour pressure: < 0,1 hPa ( 20 °C)

Water solubility: completely miscible

Surface tension: not determined

**12.5. Results of PBT and vPvB assessment**

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

**12.6 Other adverse effects**

No data available

Additional ecological information: Ecotoxicological information provided is based on a structurally or compositionally similar product.

## SECTION 13: DISPOSAL CONSIDERATIONS

**13.1 Waste treatment methods**

**Product**

Recycling, recovery and reuse of materials is recommended if permitted by regulations. If recycling is not practicable, dispose of in compliance with local regulations. Incineration is recommended.

**Contaminated packaging**

Packages that cannot be cleaned must be disposed of the same way as the unused product.

## SECTION 14: TRANSPORT INFORMATION

### 14.1 UN number

#### Land transport

Not classified as dangerous in the meaning of transport regulations.

#### Sea transport

Not classified as dangerous in the meaning of transport regulations.

#### Air transport

Not classified as dangerous in the meaning of transport regulations.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable

**14.8 Special precautions for user**  
None known.

## SECTION 15: REGULATORY INFORMATION

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

Other regulations : This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

#### Notification status

EINECS : All components of this product are included in the European Inventory of Existing Chemical Substances (EINECS) or are not required to be listed on EINECS.

AIIC : All components of this product are included in the Australian Inventory of Industrial Chemicals (AIIC) or are not required to be listed on the Australian Inventory of Industrial Chemicals (AIIC).

DSL : All components of this product are included in the Canada Domestic Substance List (DSL) or are not required to be listed on the Canada Domestic Substance List (DSL).

IECSC : All components of this product are included on the Chinese

|       |                                                                                                                                                                                              |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       | inventory or are not required to be listed on the Chinese inventory.                                                                                                                         |
| ENCS  | : All components of this product are included on the Japanese (ENCS) inventory or are not required to be listed on the Japanese (ENCS) inventory.                                            |
| KECI  | : All components of this product are included in the Korean (ECL) inventory or are not required to be listed on the Korean (ECL) inventory.                                                  |
| PICCS | : All components of this product are included on the Philippine (PICCS) inventory or are not required to be listed on the Philippine (PICCS) inventory.                                      |
| TSCA  | : All components of this product are included in the United States TSCA Chemical Inventory with Active Status or are not required to be listed on the United States TSCA Chemical Inventory. |
| NZIoC | : All components of this product are NOT included on the New Zealand Inventory of Chemical Substances.                                                                                       |
| TCSI  | : All components of this product are included on the Taiwan Toxic Chemical Substances Control Act Inventory.                                                                                 |

## 15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this mixture.

## SECTION 16: OTHER INFORMATION

### Full text of H-Statements referred to under section 3.

|        |                                                       |
|--------|-------------------------------------------------------|
| H304   | May be fatal if swallowed and enters airways.         |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |
| H302   | Harmful if swallowed.                                 |
| H318   | Causes serious eye damage.                            |
| H412   | Harmful to aquatic life with long lasting effects.    |
| H302   | Harmful if swallowed.                                 |
| H318   | Causes serious eye damage.                            |
| H412   | Harmful to aquatic life with long lasting effects.    |
| H302   | Harmful if swallowed.                                 |
| H318   | Causes serious eye damage.                            |
| H412   | Harmful to aquatic life with long lasting effects.    |

### Training advice

Read the safety data sheet before using the product.

### Further information

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

### Sources of key data used to compile the Safety Data Sheet

Regulations, databases, literature, own tests.

**Additions, Deletions, Revisions**

Relevant changes have been marked with vertical lines.