SAFETY DATA SHEET

MARINFLOC FLOCBOOSTER

Ref. 3.2/REG_EU/EN

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

Revision Date: 01.20.2024

Previous date: 1.07.2022

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.

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; 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 Eye Dam. Category 1,H318 Aquatic Chronic Category 3,H412
68551-12-2	Alcohols, C12-16, ethoxylated	0 - 2,99 %	Acute Tox. Category 4,H302 Eye Dam. Category 1,H318 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 (CO2)
Keep containers and surroundings cool with water spray.

Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

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/m³, Vapour, total hydrocarbons

Sweden:
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics
SE AFS, RCP-method (supplier):, NGV = 165 ppm = 1 200 mg/m³, 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/m³, 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/m³, Vapour, total hydrocarbons

Belgium:
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics
BE OEL, RCP-method (supplier):, TWA = 165 ppm = 1 200 mg/m³, 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/m³, 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/m³, Vapour, total hydrocarbons

Denmark:
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics
DK OEL, RCP-method (supplier):, TWA = 165 ppm = 1 200 mg/m³, Vapour, total hydrocarbons

Estonia:

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics
EE OEL, RCP-method (supplier):, TWA = 165 ppm = 1 200 mg/m³, Vapour, total hydrocarbons

Spain:

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics
ES VLA, RCP-method (supplier):, TWA = 165 ppm = 1 200 mg/m³, Vapour, total hydrocarbons

France:

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics
FR VLE, RCP-method (supplier):, VME = 165 ppm = 1 200 mg/m³, Vapour, total hydrocarbons

Greece:

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics
GR OEL, RCP-method (supplier):, TWA = 165 ppm = 1 200 mg/m³, Vapour, total hydrocarbons

Hungary:

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics
HU OEL, RCP-method (supplier):, TWA = 165 ppm = 1 200 mg/m³, Vapour, total hydrocarbons

Ireland:

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics
IE OEL, RCP-method (supplier):, TWA = 165 ppm = 1 200 mg/m³, Vapour, total hydrocarbons

Iceland:

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics
IS OEL, RCP-method (supplier):, TWA = 165 ppm = 1 200 mg/m³, Vapour, total hydrocarbons

Italy:

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics
IT OEL, RCP-method (supplier):, TWA = 165 ppm = 1 200 mg/m³, Vapour, total hydrocarbons

Lithuania:

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics
LT OEL, RCP-method (supplier):, TWA = 165 ppm = 1 200 mg/m³, Vapour, total hydrocarbons

Luxembourg:

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics
LU OEL, RCP-method (supplier):, TWA = 165 ppm = 1 200 mg/m³, Vapour, total hydrocarbons

Latvia:

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics
LV OEL, RCP-method (supplier):, TWA = 165 ppm = 1 200 mg/m³, Vapour, total hydrocarbons

Malta:

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics
MT OEL, RCP-method (supplier):, TWA = 165 ppm = 1 200 mg/m³, 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/m³, Vapour, total hydrocarbons

Norway:

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

NO OEL, RCP-method (supplier):, TWA = 165 ppm = 1 200 mg/m³, Vapour, total hydrocarbons

Poland:

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics
PL OEL, RCP-method (supplier):, TWA = 165 ppm = 1 200 mg/m³, 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/m³, Vapour, total hydrocarbons

Slovenia:

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics
SI OEL, RCP-method (supplier):, MV = 165 ppm = 1 200 mg/m³, Vapour, total hydrocarbons

Slovakia:

2-Propenoic acid, ammonium salt, polymer with 2-propenamide
SK OEL, 2006-06-01, TWA = 5 mg/m³, total compact aerosols

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics
SK OEL, RCP-method (supplier):, TWA = 165 ppm = 1 200 mg/m³, Vapour, total hydrocarbons

Romania:

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics
RO OEL, RCP-method (supplier):, TWA = 165 ppm = 1 200 mg/m³, 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/cm³
Relative density	No data available
Solubility(ies):	

Water solubility	dispersible
Partition coefficient: n-octanol/water	Not applicable
Auto-ignition temperature	No data available
Thermal decomposition	No data available
Viscosity:	
Viscosity, kinematic	> 20,5 mm²/s (40 °C)
Oxidizing	The substance or mixture is not classified as oxidizing.

9.2 Other information

Surface tension	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 (COx)
Ammonia
Nitrogen oxides (NOx)

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/m³
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.