

SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2020/878)

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

1.1. Product identifier

Product name : MARLINE HVO UFI: RE00-S00R-A008-FQTE

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

Relevant identified uses: Use as a replacement fuel for diesel in captive fleets. Replacement of fossil fuels

1.3. Details of the supplier of the safety data sheet

Registered company name : MARLINE. Address : ZA SUD ESSOR - 5, rue Marcel LALOYAU.91150.BRIERES-LES-SCELLES.France. Telephone : +33 (0)1 69 92 90 99. Fax : +33 (0)1 60 80 15 58. Email : info@marline.fr http://www.marline.fr

1.4. Emergency telephone number : +33 (0)1 45 42 59 59.

Association/Organisation : INRS / ORFILA http://www.centres-antipoison.net.

Other emergency numbers

National Poisons Information Service of England: http://npis.org - NHS 111: dial 111 - National Poisons Information Centre of Ireland: 353 (1) 809 2166 - LUXEMBOURG : (+352) 8002 5500 - European Emergency Number Association (EENA) : 112

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

Repeated exposure may cause skin dryness or cracking (EUH066).

Aspiration hazard, Category 1 (Asp. Tox. 1, H304).

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

2.2. Label elements

In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms :



Signal Word :	
DANGER	
Product identifiers :	
EC 618-882-6	ALKANES, C10-20-BRANCHED AND LINEAR
Additional labeling :	
Hazard statements :	
H304	May be fatal if swallowed and enters airways.
EUH066	Repeated exposure may cause skin dryness or cracking.
Precautionary statements - R	esponse :
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331	Do NOT induce vomiting.
Precautionary statements - D	isposal :
P501	Dispose of contents/container at a disposal facility in accordance with local regulations.

2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) >= 0.1% published by the European CHemicals Agency (ECHA) under article 57 of REACH: http://echa.europa.eu/fr/candidate-list-table

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

The mixture does not contain substances> = 0.1% with endocrine disrupting properties in accordance with the criteria of the Delegated Regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commission.

Product may form flammable mixtures in air when heated above flash point.

Do not discharge into the environment.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Composition :

Identification	(EC) 1272/2008	Note	%			
CAS: 928771-01-1	GHS08 x % > 90					
EC: 618-882-6	Dgr					
REACH: 01-2119450077-42	Asp. Tox. 1, H304					
	EUH:066					
ALKANES, C10-20-BRANCHED AND						
LINEAR						

Information on ingredients :

(Full text of H-phrases: see section 16) Contains additives.

SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

4.1. description of first aid measures

In the event of exposure by inhalation :

If inhaled, move the patient into the fresh air and keep warm and at rest.

If breathing is irregular or has stopped, proceed with artificial respiration and seek medical attention.

In the event of splashes or contact with eyes :

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.

If there is any redness, pain or visual impairment, consult an ophthalmologist.

In the event of splashes or contact with skin :

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

If the contaminated aera is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

In the event of swallowing :

Do not give the patient anything orally.

Seek medical attention, showing the label.

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

No data available.

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

No data available.

SECTION 5 : FIREFIGHTING MEASURES

Non-flammable.

5.1. Extinguishing media

Suitable methods of extinction

- In the event of a fire, use :
- sprayed water or water mist
- foam
- multipurpose ABC powder
- BC powder
- carbon dioxide (CO2)

Unsuitable methods of extinction

In the event of a fire, do not use :

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- water jet

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide (CO2)
- aldehydes

- ketone

5.3. Advice for firefighters

Due to the toxicity of the gas emitted on thermal decomposition of the products, fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For non first aid worker

Avoid any contact with the skin and eyes.

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

6.3. Methods and material for containment and cleaning up

Clean preferably with a detergent, do not use solvents.

6.4. Reference to other sections

No data available.

SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

7.1. Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Ensure that there is adequate ventilation, especially in confined areas.

Fire prevention :

Handle in well-ventilated areas.

Never inhale this mixture.

Prevent access by unauthorised personnel.

Recommended equipment and procedures :

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Packages which have been opened must be reclosed carefully and stored in an upright position.

Prohibited equipment and procedures :

No smoking, eating or drinking in areas where the mixture is used.

7.2. Conditions for safe storage, including any incompatibilities

No data available.

Storage

Keep the container tightly closed in a dry, well-ventilated place.

Keep away from food and drink, including those for animals.

The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.

Packaging

Always keep in packaging made of an identical material to the original.

7.3. Specific end use(s)

No data available.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

No data available.

Derived no effect level (DNEL) or derived minimum effect level (DMEL):

ALKANES, C10-20-BRANCHED AND LINEAR (CAS: 928771-01-1)

Final use: Exposure method:

Potential health effects: DNEL :

Exposure method: Potential health effects: DNEL :

Final use:

Exposure method: Potential health effects: DNEL :

Exposure method: Potential health effects: DNEL :

Exposure method: Potential health effects: DNEL :

Predicted no effect concentration (PNEC):

ALKANES, C10-20-BRANCHED AND LINEAR (CAS: 9	28771-01-1)		
Environmental compartment:	Soil.		
PNEC :	761 mg/kg		
Environmental compartment	Fresh water.		
Environmental compartment: PNEC :			
PNEC :	0.1 mg/l		
Environmental compartment:	Sea water.		
PNEC :	0.01 mg/l		
Environmental compartment:	Intermittent waste water.		
PNEC :	0.1 mg/l		
Environmental compartment:	Fresh water sediment.		
PNEC :	3810 mg/kg		
Environmental compartment:	Marine sediment.		
PNEC :	3.73 mg/kg		
INLO.	5.75 mg/kg		

Environmental compartment: PNEC :

Waste water treatment plant. 10 mg/l

Workers.

Long term systemic effects.

42 mg/kg body weight/day

Long term systemic effects.

Consumers.

Long term systemic effects.

18 mg/kg body weight/day

Long term systemic effects.

18 mg/kg body weight/day

Long term systemic effects.

94 mg of substance/m3

147 mg of substance/m3

Dermal contact.

Inhalation.

Ingestion.

Dermal contact.

Inhalation.

8.2. Exposure controls

Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



Use personal protective equipment that is clean and has been properly maintained. Store personal protective equipment in a clean place, away from the work area. Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

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- Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles in accordance with standard EN166.

- Hand protection

Wear suitable protective gloves in the event of prolonged or repeated skin contact.

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN ISO 374-1.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended :

- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))

- PVA (Polyvinyl alcohol)

- Body protection

Avoid skin contact.

Wear suitable protective clothing.

Suitable type of protective clothing :

In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605/A1 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034/A1 to prevent skin contact. Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

- Respiratory protection

Particle filter according to standard EN143 :

- P2 (White)

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical	state
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Physical state	
Physical state :	Fluid liquid.
-	Fluid and clear.
Colour	
Colour:	Colorless to pale yellow.
Odour	
Odour threshold :	Not stated.
Odour:	Mild.
Freezing point	
Freezing point / Freezing range :	Not stated.
Boiling point or initial boiling point and boiling range	
Boiling point/boiling range :	Not relevant.
Flammability	
Flammability (solid, gas) :	Not stated.
Lower and upper explosion limit	
Explosive properties, lower explosivity limit (%) :	Not stated.
Explosive properties, upper explosivity limit (%):	Not stated.
Flash point	
Flash Point Interval :	60°C < FP <= 93°C
Auto-ignition temperature	
Self-ignition temperature :	Not relevant.
Decomposition temperature	
Decomposition point/decomposition range :	Not relevant.
рН	
pH (aqueous solution) :	Not stated.
pH :	Not relevant.
Kinematic viscosity	
Viscosity :	Not stated.
Viscosity:	v < 7 mm2/s (40°C)
Solubility	

Solubility

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MARLINE HVO	
Water solubility :	Insoluble.
Fat solubility :	Not stated.
Partition coefficient n-octanol/water (log value)	
Partition coefficient: n-octanol/water :	Not stated.
Vapour pressure	
Vapour pressure (50°C) :	Below 110 kPa (1.10 bar).
Density and/or relative density	
Density :	0.770 - 0.790 (15°C)
Relative vapour density	
Vapour density :	Not stated.
9.2. Other information	
No data available.	

9.2.1. Information with regard to physical hazard classes

No data available.

9.2.2. Other safety characteristics

No data available.

SECTION 10 : STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

When exposed to high temperatures, the mixture can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide.

10.4. Conditions to avoid

- Avoid :
- heat
- flames and hot surfaces
- accumulation of electrostatic charges.

10.5. Incompatible materials

- Keep away from :
- oxidising agents
- acids
- bases

10.6. Hazardous decomposition products

The thermal decomposition may release/form :

- carbon monoxide (CO)
- carbon dioxide (CO2)
- aldehydes
- ketone

SECTION 11 : TOXICOLOGICAL INFORMATION

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

Exposure to vapours from solvents in the mixture in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system.

Symptoms produced will include headaches, numbness, dizziness, fatigue, muscular asthenia and, in extreme cases, loss of consciousness. Repeated or prolonged contact with the mixture may cause removal of natural oil from the skin resulting in non-allergic contact dermatitis and

absorption through the skin.

Splashes in the eyes may cause irritation and reversible damage

Aspiration toxicity includes severe acute effects such as chemical pneumonia, varying degrees of pulmonary injury or death following aspiration.

11.1.1. Substances

Acute toxicity :

ALKANES, C10-20-BRANCHED AND LINEAR (CAS: 928771-01-1) Oral route :

2000 < LD50 <= 5000 mg/kg Species : Rat

Dermal route :

2,000 < LD50 <= 5000 mg/kg

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	Species : Rat
11.1.2. Mixture	
Acute toxicity :	
Oral route :	No observed effect.
	LD50 = 2500 mg/kg
Dermal route :	No observed effect.
	LD50 = 2500 mg/kg
nhalation route (Vapours) :	No effect.
	Duration of exposure : 4 h
	LC50 = 23.40 mg/l
Aspiration hazard :	
May be fatal if swallowed and enters	•
	ute effects such as chemical pneumonia, varying degrees of pulmonary injury or death following aspiration.
11.2. Information on other hazards	
ECTION 12 : ECOLOGICAL INFOR	MATION
12.1. Toxicity	
12.1.1. Substances	
ALKANES, C10-20-BRANCHED AN	D LINEAR (CAS: 928771-01-1)
Fish toxicity :	LC50 > 1000 mg/l
	Species : Oncorhynchus mykiss
	Duration of expensive : 06 h
	Duration of exposure : 96 h
	OECD Guideline 203 (Fish, Acute Toxicity Test)
Crustacean toxicity ·	OECD Guideline 203 (Fish, Acute Toxicity Test)
Crustacean toxicity :	OECD Guideline 203 (Fish, Acute Toxicity Test) EC50 > 100 mg/l
Crustacean toxicity :	OECD Guideline 203 (Fish, Acute Toxicity Test)
Crustacean toxicity :	OECD Guideline 203 (Fish, Acute Toxicity Test) EC50 > 100 mg/l Species : Daphnia magna
Crustacean toxicity :	OECD Guideline 203 (Fish, Acute Toxicity Test) EC50 > 100 mg/l Species : Daphnia magna Duration of exposure : 48 h OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Crustacean toxicity :	OECD Guideline 203 (Fish, Acute Toxicity Test) EC50 > 100 mg/l Species : Daphnia magna Duration of exposure : 48 h OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) NOEC > 1 mg/l
Crustacean toxicity :	OECD Guideline 203 (Fish, Acute Toxicity Test) EC50 > 100 mg/l Species : Daphnia magna Duration of exposure : 48 h OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Crustacean toxicity :	OECD Guideline 203 (Fish, Acute Toxicity Test) EC50 > 100 mg/l Species : Daphnia magna Duration of exposure : 48 h OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) NOEC > 1 mg/l Duration of exposure : 21 days
Crustacean toxicity : Algae toxicity :	OECD Guideline 203 (Fish, Acute Toxicity Test) EC50 > 100 mg/l Species : Daphnia magna Duration of exposure : 48 h OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) NOEC > 1 mg/l Duration of exposure : 21 days OECD Guideline 211 (Daphnia magna Reproduction Test) ECr50 > 100 mg/l
	OECD Guideline 203 (Fish, Acute Toxicity Test) EC50 > 100 mg/l Species : Daphnia magna Duration of exposure : 48 h OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) NOEC > 1 mg/l Duration of exposure : 21 days OECD Guideline 211 (Daphnia magna Reproduction Test) ECr50 > 100 mg/l Species : Scenedesmus subspicatus
	OECD Guideline 203 (Fish, Acute Toxicity Test) EC50 > 100 mg/l Species : Daphnia magna Duration of exposure : 48 h OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) NOEC > 1 mg/l Duration of exposure : 21 days OECD Guideline 211 (Daphnia magna Reproduction Test) ECr50 > 100 mg/l Species : Scenedesmus subspicatus Duration of exposure : 72 h
	OECD Guideline 203 (Fish, Acute Toxicity Test) EC50 > 100 mg/l Species : Daphnia magna Duration of exposure : 48 h OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) NOEC > 1 mg/l Duration of exposure : 21 days OECD Guideline 211 (Daphnia magna Reproduction Test) ECr50 > 100 mg/l Species : Scenedesmus subspicatus
	OECD Guideline 203 (Fish, Acute Toxicity Test) EC50 > 100 mg/l Species : Daphnia magna Duration of exposure : 48 h OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) NOEC > 1 mg/l Duration of exposure : 21 days OECD Guideline 211 (Daphnia magna Reproduction Test) ECr50 > 100 mg/l Species : Scenedesmus subspicatus Duration of exposure : 72 h
Algae toxicity :	OECD Guideline 203 (Fish, Acute Toxicity Test) EC50 > 100 mg/l Species : Daphnia magna Duration of exposure : 48 h OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) NOEC > 1 mg/l Duration of exposure : 21 days OECD Guideline 211 (Daphnia magna Reproduction Test) ECr50 > 100 mg/l Species : Scenedesmus subspicatus Duration of exposure : 72 h OECD Guideline 201 (Alga, Growth Inhibition Test)
Algae toxicity : 12.1.2. Mixtures	OECD Guideline 203 (Fish, Acute Toxicity Test) EC50 > 100 mg/l Species : Daphnia magna Duration of exposure : 48 h OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) NOEC > 1 mg/l Duration of exposure : 21 days OECD Guideline 211 (Daphnia magna Reproduction Test) ECr50 > 100 mg/l Species : Scenedesmus subspicatus Duration of exposure : 72 h OECD Guideline 201 (Alga, Growth Inhibition Test)
Algae toxicity : 12.1.2. Mixtures No aquatic toxicity data available for t	OECD Guideline 203 (Fish, Acute Toxicity Test) EC50 > 100 mg/l Species : Daphnia magna Duration of exposure : 48 h OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) NOEC > 1 mg/l Duration of exposure : 21 days OECD Guideline 211 (Daphnia magna Reproduction Test) ECr50 > 100 mg/l Species : Scenedesmus subspicatus Duration of exposure : 72 h OECD Guideline 201 (Alga, Growth Inhibition Test)
Algae toxicity : 12.1.2. Mixtures No aquatic toxicity data available for t 12.2. Persistence and degradability	OECD Guideline 203 (Fish, Acute Toxicity Test) EC50 > 100 mg/l Species : Daphnia magna Duration of exposure : 48 h OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) NOEC > 1 mg/l Duration of exposure : 21 days OECD Guideline 211 (Daphnia magna Reproduction Test) ECr50 > 100 mg/l Species : Scenedesmus subspicatus Duration of exposure : 72 h OECD Guideline 201 (Alga, Growth Inhibition Test) the mixture.

12.3. Bioaccumulative potential

12.3.1. Substances

ALKANES, C10-20-BRANCHED AND LINEAR (CAS: 928771-01-1) Octanol/water partition coefficient : log Koe > 6.6

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Endocrine disrupting properties

No data available.

12.7. Other adverse effects

No data available.

German regulations concerning the classification of hazards for water (WGK, AwSV Annex I, KBws) :

WGK 1 : Slightly hazardous for water.

SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Do not pour into drains or waterways.

Waste :

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging :

Empty container completely. Keep label(s) on container. Give to a certified disposal contractor.

SECTION 14 : TRANSPORT INFORMATION

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2021 - IMDG 2020 [40-20] - ICAO/IATA 2022 [63]).

14.1. UN number or ID number

1202

14.2. UN proper shipping name

UN1202=GAS OIL or DIESEL FUEL or HEATING OIL, LIGHT (flash- point not more than 60 °C)

14.3. Transport hazard class(es)

- Classification :



3

14.4. Packing group

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14.5. Environmental hazards

14.6. Special precautions for user

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	3	F1	III	3	30	5 L	640M 664	E1	3	D/E
IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ	Stowage	Segregati	
								Handling	on	
	3	-	111	5 L	F-E. S-E	-	E1	Category	-	
								A		
IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ	
	3	-	III	355	60 L	366	220 L	A3	E1	
	3	-	III	Y344	10 L	-	-	A3	E1	

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG. For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

14.7. Maritime transport in bulk according to IMO instruments

No data available.

SECTION 15: Regulatory information

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

- Classification and labelling information included in section 2:

The following regulations have been used:

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- EU Regulation No. 1272/2008 amended by EU Regulation No. 2022/692 (ATP 18)

- Container information:

The mixture does not contain any substance restricted under Annex XVII of Regulation (EC) No. 1907/2006 (REACH): https://echa.europa.eu/substances-restricted-under-reach.

- Particular provisions :

No data available.

- German regulations concerning the classification of hazards for water (WGK, AwSV Annex I, KBws) :

WGK 1 : Slightly hazardous for water. **15.2. Chemical safety assessment**

No data available.

SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions. It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations. The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

Wording of the phrases mentioned in section 3 :

May be fatal if swallowed and enters airways.				
Repeated exposure may cause skin dryness or cracking.				

Abbreviations :

LD50 : The dose of a test substance resulting in 50% lethality in a given time period.

LC50 : The concentration of a test substance resulting in 50% lethality in a given period.

- EC50 : The effective concentration of substance that causes 50% of the maximum response.
- ECr50 : The effective concentration of substance that causes 50% reduction in growth rate.

NOEC : The concentration with no observed effect.

REACH : Registration, Evaluation, Authorization and Restriction of Chemical Substances.

DNEL : Derived No-Effect Level

PNEC : Predicted No-Effect Concentration

UFI : Unique formulation identifier.

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefahrdungsklasse (Water Hazard Class).

GHS08 : Health hazard

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.