Safety Data Sheet

according to UK REACH Regulation

STHAMEX® IAF MARINE 2% F-10 #9271

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

1.1. Product identifier

STHAMEX® IAF MARINE 2% F-10 #9271

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

Use of the substance/mixture

Fire extinguishing agent

Uses advised against

Do not use for cleaning purposes.
Do not use for private purposes (household).

1.3. Details of the supplier of the safety data sheet

Company name:	Fabrik chemischer Präparate von Dr. Richard Sthamer GmbH & Co. KG	
Street:	Liebigstraße 5	
Place:	D-22113 Hamburg	
Telephone:	+49 40 736168-0	Telefax: +49 40 736168-60
E-mail:	info@sthamer.com	
Contact person:	Laboratory	Telephone: +49 40 36168-80
E-mail:	MSDS@sthamer.com	
Internet:	www.sthamer.com	
Responsible Department:	Regulatory Affairs	

1.4. Emergency telephone number:

National Poisons Information Service
Telephone: 0844 892 0111

Further Information

The information in this section and in all following sections (unless otherwise stated) refer to the product in the delivery condition (concentrate). The ready-to-use solutions prepared according to the dilution recommendation are to be classified differently (see Section 16).

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Skin Irrit. 2; H315
Eye Dam. 1; H318
Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Hazard components for labelling

Sulphuric acid, mono-C8–14-alkyl esters, compounds with triethanolamine
Alcohols, C12-C14, ethoxylated, sulfates, sodium salts
Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, C6-12-alkyl ethers, sodium salts

Signal word: Danger

Pictograms:



Hazard statements

H315	Causes skin irritation.
H318	Causes serious eye damage.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

P264	Wash ... thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P302+P352	IF ON SKIN: Wash with plenty of ....
P321	Specific treatment (see ... on this label).
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P501	Dispose of contents/container to ....

Special labelling

1 - < 5 per cent of the mixture consists of component(s) of unknown acute toxicity (inhalation).

2.3. Other hazards

Endocrine disrupting properties:
There are no data available on the mixture itself.
Information on ingredients: This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

Results of PBT and vPvB assessment:
There are no data available on the mixture itself.
Information on ingredients: The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

The data refer to the product as delivered. The solutions for use produced according to dilution recommendations are to be classified differently.
Can harm the aquatic fauna when entering surface waters.
Can harm the bacteria population in waste water treatment plants when entering the sewerage system.
Breathing is not possible whilst submerged in the foam. Take care when spraying people!
Concentrated surfactant solutions always pose a danger to aquatic life because they greatly reduce the surface tension of water thus disrupting all life processes associated with it. In sewage treatment plants, for example, the necessary aeration of the sewage stages can be hindered by the strong foam formation.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Fire-extinguishing foams based on synthetic surfactants:
non-ionic surfactants/amphoteric surfactants/cationic surfactants/anionic surfactants in aqueous solution.

Relevant ingredients

CAS No	Chemical name	Quantity
5131-66-8	3-butoxypropan-2-ol	15 - < 20 %
85665-45-8	Sulphuric acid, mono-C8–14-alkyl esters, compounds with triethanolamine	10 - < 15 %
68891-38-3	Alcohols, C12-C14, ethoxylated, sulfates, sodium salts	1 - < 5 %
157707-85-2	Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, C6-12-alkyl ethers, sodium salts	1 - < 5 %
112-53-8	Dodecan-1-ol	1 - < 5 %
112-72-1	Tetradecan-1-ol	1 - < 5 %

Further Information

The product does not contain any relevant amounts of substances that are on the SVHC list.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove persons to safety.
Take off immediately all contaminated clothing.
Wash thoroughly the body (shower or bath).
When in doubt or if symptoms are observed, get medical advice.

After inhalation

Provide fresh air.
If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
Call a doctor if you feel unwell.

After contact with skin

Wash with plenty of soap and water.
Take off immediately all contaminated clothing and wash it before reuse.
If skin irritation occurs: Get medical advice/attention.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.
In case of eye irritation consult an ophthalmologist.

After ingestion

Never give anything by mouth to an unconscious person or a person with cramps.
IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
Call a doctor.
Observe risk of aspiration if vomiting occurs.

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

Nausea
Vomiting
Symptoms can occur only after several hours.

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

Treat symptomatically.
If unconscious but breathing normally, place in recovery position and seek medical advice.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

The product itself does not burn.
Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

not applicable

5.2. Special hazards arising from the substance or mixture

Non-flammable.

5.3. Advice for firefighters

No special fire protection measures are necessary.
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.
Regardless of the admixture of a foam agent, extinguishing water can be heavily contaminated with hazardous substances due to the absorption of fire residues and should therefore, if possible, not enter the sewage system or bodies of water.

Additional information

none

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Do not eat, drink or smoke when using this product.
Provide adequate ventilation.
Do not breathe gas/fumes/vapour/spray.
Avoid contact with skin, eyes and clothes.
Use personal protection equipment.

6.2. Environmental precautions

Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).
Do not empty into drains; dispose of this material and its container in a safe way.
Do not allow to enter into soil/subsoil.
Prevent spread over a wide area (e.g. by containment or oil barriers).

6.3. Methods and material for containment and cleaning up

Other information

Soak up inert absorbent and dispose as waste requiring special attention.
Suitable material for taking up: Sand, Sawdust, Universal binder
Clear contaminated areas thoroughly.
Clean contaminated articles and floor according to the environmental legislation.
Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Treat the recovered material as prescribed in the section on waste disposal.
Safe handling: see section 7
Personal protection equipment: see section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Wear personal protection equipment (refer to section 8).
Avoid: Skin contact, Eye contact

Advice on protection against fire and explosion

The product itself does not burn.
No special fire protection measures are necessary.

Advice on general occupational hygiene

Wash hands before breaks and after work.
Remove contaminated, saturated clothing immediately.
Draw up and observe skin protection programme.
When using do not eat, drink, smoke, sniff.
Wash contaminated clothing prior to re-use.

Further information on handling

Shafts and sewers must be protected from entry of the product.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.
Do not store at temperatures above 50°C
Suitable container/equipment material: Refined steel, Polyethylene
Unsuitable container/equipment material: Light metal; Alloy, contains light metal; Copper; Alloy, containing copper; Zinc; Steel; Iron.

Hints on joint storage

No special measures are necessary.
Keep away from food, drink and animal feedingstuffs.

Further information on storage conditions

Store concentrate according to national regulations (VAwS).
Storage class: 12 - non-combustible liquids that cannot be assigned to any of the above storage classes

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
57-55-6	Propane-1,2-diol, particulates	-	10		TWA (8 h)	WEL

8.2. Exposure controls







Individual protection measures, such as personal protective equipment

Eye/face protection

Suitable eye protection: goggles; Eye glasses with side protection; Face protection shield
Recommended eye protection articles: EN 166

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.
The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.
For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.
Suitable material: NBR (Nitrile rubber); Butyl caoutchouc (butyl rubber) (Breakthrough time:: 120 min)
Thickness of the glove material: > 0.6 mm
Breakthrough time:: 120 min.
Recommended glove articles: EN ISO 374

Breakthrough times and swelling properties of the material must be taken into consideration.

Skin protection

Wear suitable protective clothing.

Respiratory protection

Usually no personal respirative protection necessary.

Environmental exposure controls

Do not let the concentrate get into the environment.
If possible, hold back the application solution and dispose of after use.
Can harm the aquatic fauna when entering surface waters.
Store concentrate according to national regulations (VAwS).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	colourless
Odour:	Surfactant

		Test method
Melting point/freezing point:	-10 °C	DIN EN 1568
Boiling point or initial boiling point and boiling range:	> 100 °C	DIN 51751
Flammability:	not applicable	
Flash point:	> 100 °C	EN ISO 2719
Auto-ignition temperature:	not applicable	
Decomposition temperature:	not determined	
pH-Value (at 20 °C):	7	DIN 19268
Viscosity / kinematic: (at 20 °C)	30 mm²/s	DIN 51562
Water solubility: (at 20 °C)	completely miscible	OECD 105

Solubility in other solvents
not applicable

Partition coefficient n-octanol/water:	not applicable

Vapour pressure: (at 20 °C)	0,053 hPa	
Density (at 20 °C):	1,03 g/cm³	DIN 12791
Bulk density:	not applicable	
Relative vapour density:	not determined	

9.2. Other information

Information with regard to physical hazard classes

Explosive properties
not applicable

Sustained combustibility:	No sustained combustibility

Self-ignition temperature

Solid:	not applicable
Gas:	not applicable

Oxidizing properties
Not oxidising.

Other safety characteristics

Evaporation rate:	not determined
Solvent separation test:	not applicable
Sublimation point:	not applicable
Softening point:	not applicable

Further Information

Breathing is not possible whilst submerged in the foam. Take care when spraying people!

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.
Materials to avoid: Oxidising agent, strong; Reducing agent, strong; Strong acid; strong base

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Store at temperatures not exceeding 50 °C.
Do not store at temperatures below: Freezing point

10.5. Incompatible materials

May be corrosive to metals. (Brass; Light metal; Alloy, contains light metal; Copper; Alloy, containing copper; Zinc; Steel; Iron.)

10.6. Hazardous decomposition products

No known hazardous decomposition products.

Further information

none

SECTION 11: Toxicological information

11.1. Information on hazard classes

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalativ Dampf) > 20 mg/l; ATE (inhalativ Staub/Nebel) > 5 mg/l

Acute toxicity

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
5131-66-8	3-butoxypropan-2-ol				
	oral	LD50 3300 mg/kg	Rat	ECHA database «Registered substances»	
	dermal	LD50 > 2000 mg/kg	Rat	ECHA database «Registered substances»	
	inhalation (4 h) vapour	LC50 > Limit mg/l	Rat	ECHA database «Registered substances»	
85665-45-8	Sulphuric acid, mono-C8–14-alkyl esters, compounds with triethanolamine				
	oral	LD50 > 1650 mg/kg	Rat	ECHA database «Registered substances»	
	dermal	LD50 > 2000 mg/kg	Rat	ECHA database «Registered substances»	
68891-38-3	Alcohols, C12-C14, ethoxylated, sulfates, sodium salts				
	oral	LD50 > 3200 mg/kg	Rat	ECHA database «Registered substances»	
	dermal	LD50 > 2000 mg/kg	Rat	ECHA database «Registered substances»	
157707-85-2	Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, C6-12-alkyl ethers, sodium salts				
	oral	LD50 > 2000 mg/kg	Rat	Safety Data Sheet	
	dermal	LD50 > 2000 mg/kg	Rat	Safety Data Sheet	
	inhalation	Data lacking			
112-53-8	Dodecan-1-ol				
	oral	LD50 > 2000 mg/kg	Rat	ECHA database «Registered substances»	
	dermal	LD50 > 8000 mg/kg	Rabbit	ECHA database «Registered substances»	
	inhalation (4 h) dust/mist	LC50 > 71 mg/l	Rat	ECHA database «Registered substances»	
112-72-1	Tetradecan-1-ol				

	oral	LD50 mg/kg	> 2000	Rat	ECHA database «Registered substances» ECHA database «Registered substances»	
	dermal	LD50 mg/kg	8000	Rabbit	ECHA database «Registered substances»	
	inhalation (1 h) vapour	LC50	> 71 mg/l	Rat	ECHA database «Registered substances»	

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

Carcinogenic/mutagenic/toxic effects for reproduction
Based on available data, the classification criteria are not met.

STOT-single exposure
Based on available data, the classification criteria are not met.

STOT-repeated exposure
Based on available data, the classification criteria are not met.

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

Additional information on tests
none

Practical experience
none

11.2. Information on other hazards

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

Other information
Breathing is not possible whilst submerged in the foam. Take care when spraying people!

SECTION 12: Ecological information

12.1. Toxicity

Acute (short-term) fish toxicity
Effective dose LC50:: > 10 < 100 mg/L
Exposure duration: 96 h
Species: Leuciscus idus (golden orfe)
Method: OECD 203

Acute (short-term) toxicity to aquatic invertebrates
Effective dose EC50: > 10 < 100mg/L
Exposure duration: 48 h
Species: Daphnia magna (Big water flea)
Method: OECD 202

Acute (short-term) toxicity to algae and cyanobacteria
Effective dose EC50: > 10 < 100 mg/L

Exposure duration: 72 h
Species: Scenedesmus subspicatus
Method: OECD 201

sewage treatment plant
Method: Respiratory inhibition of municipal activated sludge.
Bacteria toxicity: ~200 mg/L
Bacteria toxicity (in aqueous solution 2%): ~10000 mg/L
Can harm the bacteria population in waste water treatment plants when entering the sewerage system.

The product has not been tested.
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CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] | [d]	Species	Source	Method
5131-66-8	3-butoxypropan-2-ol						
	Acute fish toxicity	LC50	560 mg/l	96 h	Poecilia reticulata (Guppy)	ECHA database «Registered substances»	
	Acute algae toxicity	ErC50 mg/l	> 1000	96 h	Pseudokirchneriella subcapitata	ECHA database «Registered substances»	
	Acute crustacea toxicity	EC50 mg/l	> 1000	48 h	Daphnia magna (Big water flea)	ECHA database «Registered substances»	
	Algae toxicity	NOEC	560 mg/l	4 d	Pseudokirchneriella subcapitata	ECHA database «Registered substances»	
	Acute bacteria toxicity	EC50 mg/l ( )	> 1000	3 h	Activated sludge	ECHA database «Registered substances»	
85665-45-8	Sulphuric acid, mono-C8–14-alkyl esters, compounds with triethanolamine						
	Acute fish toxicity	LC50	5,3 mg/l	96 h	Danio rerio (zebrafish)	ECHA database «Registered substances»	
	Acute algae toxicity	ErC50	11 mg/l	72 h	Desmodesmus subspicatus	ECHA database «Registered substances»	
	Acute crustacea toxicity	EC50	4,2 mg/l	48 h	Daphnia magna (Big water flea)	ECHA database «Registered substances»	
	Acute bacteria toxicity	EC50 ( )	135 mg/l	3 h	Activated sludge	ECHA database «Registered substances»	
68891-38-3	Alcohols, C12-C14, ethoxylated, sulfates, sodium salts						
	Acute fish toxicity	LC50	7,1 mg/l	96 h	Danio rerio (zebrafish)	ECHA database «Registered substances»	
	Acute algae toxicity	ErC50	27,7 mg/l	72 h	Desmodesmus subspicatus	ECHA database «Registered substances»	OECD 201
	Acute crustacea toxicity	EC50	7,4 mg/l	48 h	Daphnia magna (Big water flea)	ECHA database «Registered substances»	
	Fish toxicity	NOEC	0,14 mg/l	28 d	Pimephales promelas (fathead minnow)	ECHA database «Registered substances»	
	Algae toxicity	NOEC	0,95 mg/l	3 d	Desmodesmus subspicatus	ECHA database «Registered substances»	OECD 201
	Crustacea toxicity	NOEC	0,27 mg/l	21 d	Daphnia magna (Big water flea)	ECHA database «Registered substances»	

	Acute bacteria toxicity	EC50 > 10000 mg/l ( )	3 h	Activated sludge	ECHA database «Registered substances»	
157707-85-2	Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, C6-12-alkyl ethers, sodium salts					
	Acute fish toxicity	LC50 > 10 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	Safety Data Sheet	
	Acute algae toxicity	ErC50 > 100 mg/l	72 h		Safety Data Sheet	
	Acute crustacea toxicity	EC50 10 - 100 mg/l	48 h	Daphnia magna (Big water flea)	Safety Data Sheet	
	Crustacea toxicity	NOEC > 1 mg/l	28 d	Daphnia magna (Big water flea)	Safety Data Sheet	
	Acute bacteria toxicity	EC50 > 10000 mg/l ( )	3 h	Activated sludge	Safety Data Sheet	
112-53-8	Dodecan-1-ol					
	Acute fish toxicity	LC50 1,01 mg/l	96 h	Pimephales promelas (fathead minnow)	ECHA database «Registered substances»	
	Acute algae toxicity	ErC50 0,66 mg/l	72 h	Desmodesmus subspicatus	ECHA database «Registered substances»	
	Acute crustacea toxicity	EC50 0,765 mg/l	48 h	Daphnia magna (Big water flea)	ECHA database «Registered substances»	
	Acute bacteria toxicity	EC50 > 100000 mg/l ( )	0,5 h	Pseudomonas putida	ECHA database «Registered substances»	
112-72-1	Tetradecan-1-ol					
	Acute fish toxicity	LC50 > 1 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	ECHA database «Registered substances»	
	Acute algae toxicity	ErC50 > 10 mg/l	72 h	Scenedesmus subspicatus	ECHA database «Registered substances»	
	Acute crustacea toxicity	EC50 3,2 mg/l	48 h	Daphnia magna (Big water flea)	ECHA database «Registered substances»	
	Acute bacteria toxicity	EC50 > 10000 mg/l ( )	0,5 h	Pseudomonas putida	ECHA database «Registered substances»	

12.2. Persistence and degradability

Biodegradation: Readily biodegradable (according to OECD criteria).
Degradation rate: > 70%
Test duration: 28 d
Method: BOD (% of COD). (OECD 302B)

Chemical oyxgen demand (COD)
< 1500000 mg *O2/L
in aqueous solution 2%: < 40000 mg *O2/L

Method: Regulation (EC) No. 440/2008, Annex C.6 (COD)

Biochemical oxygen demand
< 600000 mg *O2/L
in aqueous solution 2%: < 16000 mg *O2/L
Method: Regulation (EC) No. 440/2008, Annex C.5 (BOD)

BOD5/COD ratio:: > 40%

The product has not been tested.
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CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
5131-66-8	3-butoxypropan-2-ol			
	OECD 301E	90 %	28	ECHA database «Registered substances»
	Readily biodegradable (according to OECD criteria).			
85665-45-8	Sulphuric acid, mono-C8–14-alkyl esters, compounds with triethanolamine			
	OECD 301D	92%	30	ECHA database «Registered substances»
	Readily biodegradable (according to OECD criteria).			
68891-38-3	Alcohols, C12-C14, ethoxylated, sulfates, sodium salts			
	OECD 301D	> 60%	14	ECHA database «Registered substances»
	Biodegradable.			
157707-85-2	Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, C6-12-alkyl ethers, sodium salts			
	OECD 301C	> 70%	28	Safety Data Sheet
	Readily biodegradable (according to OECD criteria).			
112-53-8	Dodecan-1-ol			
	OECD 301D	69%	28	ECHA database «Registered substances»
	Readily biodegradable (according to OECD criteria).			
112-72-1	Tetradecan-1-ol			
	OECD 301B	82,2 %	28	ECHA database «Registered substances»
	Readily biodegradable (according to OECD criteria).			

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
5131-66-8	3-butoxypropan-2-ol	1,2
85665-45-8	Sulphuric acid, mono-C8–14-alkyl esters, compounds with triethanolamine	< -0,76
68891-38-3	Alcohols, C12-C14, ethoxylated, sulfates, sodium salts	< 3
157707-85-2	Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, C6-12-alkyl ethers, sodium salts	< 3
112-53-8	Dodecan-1-ol	5,4

BCF

CAS No	Chemical name	BCF	Species	Source
5131-66-8	3-butoxypropan-2-ol	3,16		ECHA database «Registered substances»
112-53-8	Dodecan-1-ol	85		ECHA database «Registered substances»
112-72-1	Tetradecan-1-ol	372		ECHA database «Registered substances»

12.4. Mobility in soil

The product has not been tested.
The product contains dispergators.

12.7. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.
If possible, hold back the application solution and dispose of after use.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains.
Do not allow to enter into soil/subsoil.
Delivery to an approved waste disposal company.
Send to a hazardous waste incinerator facility under observation of official regulations .

SECTION 14: Transport information

Marine transport (IMDG)

Other applicable information (marine transport)

No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

Other applicable information (air transport)

No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

Other applicable information

No dangerous good in sense of this transport regulation.

Safety Data Sheet

according to UK REACH Regulation

SECTION 15: Regulatory information

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Additional information

The product contains dispergators.

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 2,7,9,11,15.

Abbreviations and acronyms

Acute Tox. 4: Acute toxicity, hazard category 4
Skin Irrit. 2: Skin irritation, hazard category 2
Eye Dam. 1: Serious eye damage, hazard category 1
Eye Irrit. 2: Eye irritation, hazard category 2
Aquatic Acute 1: Hazardous to the aquatic environment, hazard category: Acute 1
Aquatic Chronic 1: Hazardous to the aquatic environment, long-term hazard category: Chronic 1
Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard category: Chronic 2
Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard category: Chronic 3
ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.
The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.
The receiver of our product is singularly responsible for adhering to existing laws and regulations.
Please refer to our internet website for more information. www.sthamer.com
Fire extinguishing agent
This product is only approved for the following uses: Fire extinguishing agent
The information in this safety data sheet only applies to the unchanged product in the delivery condition. An application solution prepared therefrom by diluting it with water as recommended usually has significantly fewer hazardous features due to the dilution principle and can even be unclassified. See also the environmental data sheet provided by us.

Safety Data Sheet

according to UK REACH Regulation

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)