Safety Data Sheet

according to UK REACH Regulation

Li-IonEx® F-30 #1013

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

1.1. Product identifier

Li-IonEx® F-30 #1013

no PFAS added

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.

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

This mixture is not classified as hazardous in accordance with GB CLP Regulation.

2.2. Label elements

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.

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!

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

none (according to UK REACH Regulation)

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 60°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

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

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

If possible, hold back the application solution and dispose of after use.
Can harm the aquatic fauna when entering surface waters.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid:	
Colour:	light yellow	
		Test method
Boiling point or initial boiling point and boiling range:	> 100 °C	
Flammability:	not applicable	
	not applicable	
Flash point:	> 100 °C	
Auto-ignition temperature:	not applicable	
Decomposition temperature:	not determined	
pH-Value (at 20 °C):	7,5	EN 1568:2018
Viscosity / kinematic: (at 20 °C)		DIN EN ISO 3104
Water solubility:	completely miscible	
Solubility in other solvents		
not applicable		
Partition coefficient n-octanol/water:	not applicable	
Vapour pressure: (at 20 °C)	0,053 hPa	
Density:	1,195 g/cm³	
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

Do not store at temperatures above 60°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

Acute toxicity

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

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

Irritation and corrosivity

Skin corrosion/irritation: Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.
Carcinogenicity: Based on available data, the classification criteria are not met.
Reproductive toxicity: Based on available data, the classification criteria are not met.
Based on available data, the classification criteria are not met.

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

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

Additional information on tests

none

Practical experience

none

11.2. Information on other hazards

Other information

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

SECTION 12: Ecological information

12.1. Toxicity

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

12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

The product has not been tested.

12.4. Mobility in soil

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

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

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.

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): 2,7,9,13,15.

Abbreviations and acronyms

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

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