

SAFETY DATA SHEET

1 Identification of the substance or preparation and of the company/undertaking

Product Name: LIQUITREAT
Datasheet Number: 571273 5.0.0
Use of the substance/preparation: Boiler water treatment
Product Part Number: 571273 (25 liter)
Name of Supplier: Wilhelmsen Maritime Services AS
Address of Supplier: Willem Barentszstraat 50
 3165 AB Rotterdam-Albrandswaard, The Netherlands

Telephone: +31 10 4877 777
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Responsible Person: Leen de Visser, Product HSE Manager, Tel.: +31 6 538 63736
Email: Leen.de.Visser@Wilhelmsen.com
Name of Manufacturer: UNITOR CHEMICALS AS
Address of Manufacturer: P.O.Box 15
 3141 Kjøpmannskjær
 Norway.
Telephone: +47 333 515 00
Emergency Telephone: NCEC: +44 1865 407333, CHEMTREC (800) 424 9300
 American Chemistry Council +1 703 527 3887, Greece +30 210 7793777

2 Composition/information on ingredients

Chemical Name	Concentration	CAS Number	EC Number	R Phrases*	Symbols
Potassium hydroxide	1-5	1310-58-3	215-181-3	22, 35	C
Tripotassiumphosphate	1-5	7778-53-2	231-907-1	-	-

*See Section 16

3 Hazards identification

- Odour: Odourless
- Appearance: Liquid, colourless to yellow, soluble in water
- Contact with eyes: Corrosive to eyes, Can cause damage to the eyes
- Contact with skin: Causes burns (R34)
- Inhalation: No information available but must be considered harmful
- Ingestion: Harmful if swallowed (R22)



Corrosive

4 First aid measures

Contact with skin

- Remove contaminated clothing immediately and drench affected skin with plenty of water. Then wash with soap and water
- Seek medical advice if necessary

Contact with eyes

- If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes
- Irrigate eyes thoroughly whilst lifting eyelids
- Obtain immediate medical attention
- Continue flushing with water until medical help arrives

Ingestion

- Do not induce vomiting
- Never give anything by mouth to an unconscious person
- Give water or milk to drink

4 First aid measures (....)

- Obtain immediate medical attention

Inhalation

- Inhalation is unlikely to occur
- Seek medical attention if ill effects occur

General

- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) (S45)
 - When in doubt or symptoms persist, seek medical attention
-

5 Fire-fighting measures

- Non combustible
 - Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions
-

6 Accidental release measures

Personal Precautions

- Wear protective clothing as per section 8

Environmental Precautions

- No special precautions are required for this product

Clean Up Actions

- Absorb spillage in inert material and shovel up
- Ventilate the area and wash spill site after material pick-up is complete

Special Precautions

- Wear protective clothing as per section 8
-

7 Handling and storage

Handling

- Wear protective clothing as per section 8
- Eyewash bottles should be available
- Avoid contact with skin and eyes (S24/25)

Storage

- Keep only in the original container in a cool, well ventilated place (S3/9/49)
 - Keep container tightly closed (S7)
-

8 Exposure controls and personal protection

Exposure Limits

- TLV (TWA) 2 mg/m³ (Potassium hydroxide)

Exposure controls

- No special precautions are required for this product

Occupational exposure controls

- Wear suitable protective clothing, including eye/face protection and gloves (plastic or rubber are recommended)



Gloves



Suit



Goggles



No Smoking

9 Physical and chemical properties

- Odour: Odourless
 - Appearance: Liquid, colourless to yellow, soluble in water
 - pH 13 at 100 % concentration, pH 9.5-11 at 0.2 % concentration
 - Boiling point >100 °C at 760 mm /Hg
 - Vapour pressure - not known
 - Vapour density - not applicable
 - Freezing point <0 °C at 760 mm/Hg
 - Completely soluble in water
 - Specific gravity (water=1) 1.135
 - Non combustible
-

10 Stability and reactivity

- This article is considered stable under normal conditions
- Avoid overheating, Keep away from frost
- Incompatible with acid
- See Section 5

11 Toxicological information

Toxicological information

- No experimental data available

Inhalation

- Inhalation is unlikely to occur

Contact with skin

- Prolonged skin or eye contact may cause chemical burns

Contact with eyes

- Prolonged skin or eye contact may cause chemical burns

Ingestion

- The ingestion of significant quantities may cause burning sensation

Carcinogenicity

- No evidence of carcinogenic effects

12 Ecological information

Ecotoxicity

- May cause acute effects in the aquatic environment

Mobility

- Completely soluble in water

Persistence and Biodegradability

- Degrades by hydrolysis

Bioaccumulation Potential

- Bioaccumulation of the components in this product is insignificant.

Other Adverse Effects

- No environmental problems are expected when the product is used / handled correctly.
In its intended use, the product will not be released into the environment.
- Presents little or no hazard to the aquatic environment

13 Disposal considerations

Classification

- EU Waste class: 06.02
- This material and/or its container must be disposed of as hazardous waste

Disposal considerations

- Do not discharge into drains or the environment, dispose to an authorised waste collection point
- Disposal should be in accordance with local, state or national legislation

14 Transport information



Corrosive

Proper Shipping Name: POTASSIUM HYDROXIDE, SOLUTION

UN

Proper Shipping Name: Potassium hydroxide, solution
UN No.: 1814
Hazard Class: 8

Packing Group: III

Road/Rail (ADR/RID)

Proper Shipping Name: Potassium hydroxide, solution
ADR UN No.: 1814
ADR Hazard Class: 8

14 Transport information (....)

Tremcard:

80S1814

14 Transport information (....)

Sea (IMDG)

Proper Shipping Name:	Potassium hydroxide, solution		
IMDG UN No.:	1814		
IMDG Hazard Class.:	8	IMDG Pack Group.:	III
IMDG EmS:	F-A, S-B	IMDG subrisk:	N/A
IMDG Labels:	8	IMDG Flashpoint:	N/A

Air (ICAO/IATA)

Proper Shipping Name:	Potassium hydroxide, solution		
ICAO Un No.:	1814		
ICAO Hazard Class.:	8	ICAO Packing Group.:	III
ICAO subrisk:	N/A	ICAO Labels:	8, CAO
ICAO Flashpoint:	N/A		

DOT / CFR (US Department of Transportation)

DOT Proper Shipping Name:	Potassium hydroxide, solution		
Hazardous Material:	potassium hydroxide		
Hazard Class:	8	Identification Number:	UN 1814
Product RQ (lbs):	1000	DOT subrisk:	N/A
DOT Labels:	8	DOT Flashpoint:	N/A

- Forbidden on passenger aircraft

15 Regulatory information

Corrosive

Risk Phrases

- Causes burns (R34)

Safety Phrases

- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice (S26)
- Wear suitable protective clothing, eye/face protection and gloves (S36/37/39)
- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) (S45)

16 Other information

Text of R and S phrase codes used in this safety data sheet:- R22: Harmful if swallowed; R35: Causes severe burns.

The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents

The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product's properties

The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other application(s) without seeking advice from manufacturer

This Safety Data Sheet is provided in compliance with The Dangerous Substances Directive (67/548/EEC)

This Safety Data Sheet is provided in compliance with The Dangerous Preparations Directive (88/379/EEC)

This Safety Data Sheet is provided in compliance with The Safety Data Sheets Directive (2001/58EC)