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**SAFETY DATA SHEET**

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**1 Identification of the substance or preparation and the supplier**

Product Name: **LIQUITREAT**  
Datasheet Number: 571273 2.0.0  
Use of the substance/preparation: Boiler water treatment  
Product Part Number: 571273 (25 liter)

Name of Supplier: Unitor ASA  
Address of Supplier: Willem Barentszstraat 50  
3165 AB Rotterdam-Albrandswaard  
The Netherlands

Telephone: +31 10 4877 777  
Fax: +31 10 4877 888  
Responsible Person: Leen de Visser, Corporate Product Safety Manager, Tel.: +31 6 538 63736

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  
CMA +1 703 527 3887  
Greece +30 1 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	-	-

**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
- 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
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## 5 Fire-fighting measures

- Non combustible
  - Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions
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## 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
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## 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)
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## 7 Handling and storage (....)

### Storage

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

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## 8 Exposure controls and personal protection

### Exposure Limits

- TLV (TWA) 2 mg/m<sup>3</sup> (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)



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## 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

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## 10 Stability and reactivity

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

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## 11 Toxicological information

### Toxicological information

- No experimental data available

## 11 Toxicological information (...)

### 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
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## 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
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## 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
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## 14 Transport information

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**14 Transport information (....)**


Corrosive

## 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	Tremcard:	80S1814

## 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 1824
Product RQ (lbs):	1000	DOT subrisk:	N/A
DOT labels:	8	DOT Flashpoint:	N/A

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## 14 Transport information (....)

- Forbidden on passenger aircraft

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## 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)

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## 16 Other information

(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)