



SAFETY DATA SHEET

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

1.1 Product identifier

- Product Name: LIQUITREAT
- Product Part Number: 571273 (25 liter)

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

- Use of the substance/mixture:
- Boiler water treatment

1.3 Details of the supplier of the safety data sheet

- Name of Supplier: Wilhelmsen Ships Service AS
- Address of Supplier: Willem Barentzstraat 50, 3165AB Rotterdam, The Netherlands
- Telephone: Telephone: +31 4877 777 Fax: +31 4877 888
-
- Head office: Wilhelmsen Ships Service AS
- Strandveien 20, N1324 Lysaker
- Norway, Tel: (47) 6349 440 35
-
-
- Other suppliers SEE SECTION 16!!!
- For quotations contact your local Customer Services
-
- Responsible Person: Product HSE Manager
- Telephone: +31 10 4877775
- Email: WSS.GLOBAL.SDSINFO@wilhelmsen.com
- Email: WSS.GLOBAL.SDSINFO@wilhelmsen.com

1.4 Emergency telephone number

- ****ONLY TO BE USED IN CASE OF AN INCIDENT****
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- International 24hrs Emergency NCEC:+ 44 1865 407333
- American 24hrs Emergency CHEMTREC (800) 424 9300
- American Chemistry Council 24hrs +1 703 527 3887
- Greece: Poisoning emergency center, +30 210 7793777
- Norway: Poison information centre, +47 22591300
- Sweden: Poison information centre, +46 08 33 12 31
- China NRCC 24hrs emergency telephone number: +86-0532-8388 9090
- Wilhelmsen Ships Service, Melbourne, AUSTRALIA Emergency 24hrs: +61 3 9630 0998

SECTION 2 Hazards identification

2.1 Classification of the substance or mixture

- Council Directive 1999/45/EEC Classification, packing and labelling of dangerous preparations.
- Symbols: C
- Causes burns (R34)
- Harmful if swallowed (R22)
-
- Classification according to Regulation (EC) No 1272/2008
- Acute Tox. 4

SECTION 2 Hazards identification (....)

- Skin Corr. 1B
- Met. Corr. 1

2.2 Label elements



- Signal Word: Danger
-
- Contains:
 - SODIUM SULPHITE - potassium hydroxide - Potassiumphosphate
 -
- Hazard phrases
 - Harmful if swallowed (H302).
 - Causes severe skin burns and eye damage (H314).
 - May be corrosive to metals (H290).
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 -
 -
- Precautionary Phrases
 - Wear protective gloves/protective clothing/eye protection/face protection (P280).
 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting (P301+P330+P331).
 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower (P303+P361+P353).
 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing (P305+P351+P338).
 - IF exposed or concerned: (P308)
 - Immediately call a POISON CENTER or doctor/physician (P310).

2.3 Other hazards

- Not applicable
- Odour: Odourless
- Appearance: Liquid, colourless to yellow, soluble in water

SECTION 3 Composition/information on ingredients

3.1 Mixtures

- potassium hydroxide; caustic potash
 - Concentration: 1-5%
 - CAS Number: 1310-58-3
 - EC Number: 215-181-3
 - Symbols: GHS05,GHS07, C
 - R/H Phrases: R22, R35, H302,H314
 - Categories: Acute Tox. 4 * Skin Corr. 1A
- Potassiumphosphate
 - Concentration: 1-5%
 - CAS Number: 16068-46-5
 - EC Number: 240-213-8
 - Symbols: GHS07
 - R/H Phrases: H319, H315

SECTION 3 Composition/information on ingredients (....)

Categories: Skin Irrit. 2, Eye Irrit. 2

- SODIUM SULPHITE
Concentration: 5-10%
CAS Number: 7757-83-7
EC Number: 231-821-4
Symbols: GHS05
R/H Phrases: H314
Categories: Skin Corr. 1B
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SECTION 4 First aid measures

4.1 Description of first aid measures

- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower (P303+P361+P353).
- Contaminated clothing should be laundered before reuse
- Seek medical attention if irritation persists
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- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing (P305+P351+P338).
- Irrigate eyes thoroughly whilst lifting eyelids
- Obtain immediate medical attention
- Continue flushing with water until medical help arrives
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- IF SWALLOWED: rinse mouth. Do NOT induce vomiting (P301+P330+P331).
- Give plenty of water to drink
- Obtain immediate medical attention
- Never make an unconscious person vomit or drink fluids
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- IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P341).

4.2 Most important symptoms and effects, both acute and delayed

- Can cause damage to the eyes, skin and mucous membranes
- Prolonged skin or eye contact may cause chemical burns

4.3 Indication of any immediate medical attention and special treatment needed

- No information available
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SECTION 5 Fire-fighting measures

5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or mixture

- No information available

5.3 Advice for firefighters

- Wear Positive-Pressure Breathing Apparatus
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SECTION 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Wear protective clothing as per section 8

6.2 Environmental Precautions

SECTION 6 Accidental release measures (....)

- No special precautions are required for this product
- 6.3 Methods and material for containment and cleaning up
- Absorb spillage in inert material and shovel up
 - Ventilate the area and wash spill site after material pick-up is complete
- 6.4 Reference to other sections
- None
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SECTION 7 Handling and storage

- 7.1 Precautions for safe handling
- Wear protective clothing as per section 8
 - Eyewash bottles should be available
 - Do not get in eyes, on skin, or on clothing (P262).
- 7.2 Conditions for safe storage, including any incompatibilities
- Keep only in original container (P234).
 - Protect from sunlight. Store in a well-ventilated place (P410+P403).
- 7.3 Specific end use(s)
- Contact supplier for further information
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SECTION 8 Exposure controls/personal protection

- 8.1 Control parameters
- TLV (TWA) 2 mg/m³ (Potassium hydroxide)
- 8.2 Exposure controls
- No special precautions are required for this product
- 8.3 Occupational exposure controls



- Wear suitable protective clothing, including eye/face protection and gloves (plastic or rubber are recommended)
 - Penetration time of glove material:
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
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SECTION 9 Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
- Odour: Odourless
 - Appearance: Liquid, colourless to yellow, soluble in water
 - Density: Density 1.17 - 1.19 g/cm³ at 20 deg C
 - pH 13-14 at 100 % concentration
 - pH 10.5-12 at 0.2 % concentration
 - Vapour pressure - not known
 - Vapour density - not applicable
 - Completely soluble in water
 - Non combustible
- 9.2 Other information
- No information available
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SECTION 10 Stability and reactivity

10.1 Reactivity

- This article is considered stable under normal conditions

10.2 Possibility of hazardous reactions

- No hazardous reactions known if used for its intended purpose

10.3 Incompatible materials

- Incompatible with acid

10.4 Conditions to avoid

- Avoid overheating
- Keep away from frost

10.5 Hazardous Decomposition Products

- No hazardous decomposition products known
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SECTION 11 Toxicological information

11.1 Information on toxicological effects

- No experimental data available

11.2 Contact with eyes

- Prolonged skin or eye contact may cause chemical burns

11.3 Contact with skin

- Prolonged skin or eye contact may cause chemical burns

11.4 Ingestion

- The ingestion of significant quantities may cause burning sensation

11.5 Inhalation

- Inhalation is unlikely to occur
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SECTION 12 Ecological information

12.1 Toxicity

- May cause acute effects in the aquatic environment

12.2 Persistence and degradability

- Degrades by hydrolysis

12.3 Bioaccumulation Potential

- Bioaccumulation of the components in this product is insignificant.

12.4 Mobility in soil

- Completely soluble in water

12.5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII

12.6 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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SECTION 13 Disposal considerations

13.1 Waste treatment methods

- Do not discharge into drains or the environment, dispose to an authorised waste collection point
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SECTION 13 Disposal considerations (....)

- Disposal should be in accordance with local, state or national legislation

13.2 Classification

- EU Waste class: 06.02.99
 - This material and/or its container must be disposed of as hazardous waste
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SECTION 14 Transport information**14.1 UN**

- UN No.: UN1814
- Proper Shipping Name: POTASSIUM HYDROXIDE, SOLUTION
- Hazard Class: 8
- Packing Group: III

14.2 Environmental hazards

- On available data, substance is not harmful to the environment

14.3 Special precautions for user

- Forbidden on passenger aircraft

14.4 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

- Not applicable

14.5 Road/Rail (ADR/RID)

- ADR UN No.: UN1814
- Proper Shipping Name: POTASSIUM HYDROXIDE, SOLUTION
- ADR Hazard Class: 8
- ADR subrisk: -
- ADR Packing Group: III

14.6 Sea (IMDG)

- IMDG UN No.: UN1814
- Proper Shipping Name: POTASSIUM HYDROXIDE, SOLUTION
- IMDG Hazard Class: 8
- IMDG subrisk: -
- IMDG Pack Group.: III
- IMDG EmS: F-A, S-B

14.7 Air (ICAO/IATA)

- ICAO UN No.: UN1814
- Proper Shipping Name:
- ICAO Packing Group: III
- ICAO Hazard Class: 8
- ICAO subrisk: -

14.8 DOT / CFR (US Department of Transportation)

- Identification Number: UN1814
- DOT Proper Shipping Name: POTASSIUM HYDROXIDE, SOLUTION
- DOT Labels: 8
- Product RQ (lbs): 1000

SECTION 15 Regulatory information

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

- Council Directive 1999/45/EEC Classification, packing and labelling of dangerous preparations.
- Refer to current The Dangerous Substances Directive (67/548/EEC)
- Classification according to Regulation (EC) No 1272/2008
- This Safety Data Sheet has been prepared in accordance with article 31 and annex II in REACH and Directive 453/2010/EU.
- Offshore product registration number: Danish PR number: 1268579

15.2 Chemical Safety Assessment

- None
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SECTION 16 Other information

Text not given with phrase codes where they are used elsewhere in this safety data sheet:- H302: Harmful if swallowed. H314: Causes severe skin burns and eye damage. H315: Causes skin irritation. H319: Causes serious eye irritation. R22: Harmful if swallowed. R35: Causes severe burns.

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

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

The most up-to-date version of this MSDS can be found on www.wilhelmsen.com/shipsservice

OTHER CONTACT INFORMATION MAJOR CHEMICAL OFFICES

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SECTION 16 Other information (....)

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