
SAFETY DATA SHEET

1 Identification of the substance or preparation and the supplier

Product Name: **AUTOTREAT**
Datasheet Number: 698720 2.0.0
Use of the substance/preparation: Boiler water treatment
Product Part Number: 698720 (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	5-10	1310-58-3	215-181-3	22, 35	C
2-Diethylaminoethanol	1-5	100-37-8	202-845-2	10, 20/21/22, 34	C
2-Aminoethanol	1-5	141-43-5	205-483-3	20, 36/37/38	Xn

3 Hazards identification

- Odour: Odourless
- Appearance: Liquid, pale yellow, soluble in water
- Contact with eyes: Prolonged skin or eye contact may cause chemical burns
- Contact with skin: Causes severe burns (R35)
- Inhalation: Severely irritating to respiratory system
- Ingestion: Can cause damage to the digestive system



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 attention if irritation persists
- Contaminated clothing should be laundered before reuse

Contact with eyes

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

Ingestion

- Do not induce vomiting
- Give plenty of water to drink
- Obtain immediate medical attention

Inhalation

- Inhalation is unlikely to occur
- Remove patient to fresh air
- 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)
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5 Fire-fighting measures

- Non combustible
 - Nitrogen and carbon oxides may be formed
 - 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

- Do not allow to enter public sewers and watercourses

Immediate Actions

- Contain spillage by any means possible

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

- See Section 8
- The usual precautions for handling chemicals should be observed
- Eyewash bottles should be available

Storage

- Keep only in the original container in a cool, well ventilated place (S3/9/49)
- Protect from frost

8 Exposure controls and personal protection

Exposure Limits

- TLV (TWA) 1 ppm, 2.5 mg/m³ (2-Aminoethanol)
- TLV (TWA) 2 ppm, 9.6 mg/m³ (2-Diethylaminoethanol)
- 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)
- Respiratory protection may be required under exceptional circumstances when excessive air contamination exists



9 Physical and chemical properties

- Odour: Odourless
- Appearance: Liquid, pale yellow, soluble in water
- pH 13 at 100 % concentration
- Boiling point >100 °C at 760 mm /Hg
- Vapour pressure - not known
- Freezing point <0 °C at 760 mm/Hg
- Completely soluble in water
- Specific gravity (water=1) 1.06
- Non combustible

10 Stability and reactivity

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

11 Toxicological information

Toxicological information

- No experimental data available

Inhalation

- Inhalation is unlikely to occur
- May cause severe irritation

Contact with skin

- Causes severe burns (R35)

Contact with eyes

- Corrosive to eyes

Ingestion

- Can cause damage to the digestive system

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

- The components in this product are readily biodegradable.
- 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.

13 Disposal considerations

Classification

- This material and/or its container must be disposed of as hazardous waste
- EU Waste class: 07.01

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


Corrosive

UN

Proper Shipping Name:	Potassiumhydroxide, solution		
UN No.:	1814		
Hazard Class:	8	Packing Group:	II

Road/Rail (ADR/RID)

Proper Shipping Name:	Potassiumhydroxide, solution		
ADR UN No.:	1814		
ADR Hazard Class:	8	Tremcard:	80S1814

Sea (IMDG)

Proper Shipping Name:	Potassiumhydroxide, solution		
IMDG UN No.:	1814		
IMDG Hazard Class.:	8	IMDG Pack Group.:	II
IMDG EmS:	F-A, S-B	IMDG subrisk:	N/A
IMDG labels:	8	IMDG Flashpoint:	N/A

Air (ICAO/IATA)

Proper Shipping Name:	Potassiumhydroxide, solution		
ICAO Un No.:	1814		
ICAO Hazard Class.:	8	ICAO Packing Group.:	II
ICAO subrisk:	N/A	ICAO Labels:	8 + CAO
ICAO Flashpoint:	N/A		

DOT / CFR (US Department of Transportation)

DOT Proper Shipping Name:	Potassiumhydroxide, solution		
Hazardous Material:	Potassiumhydroxide		
Hazard Class:	8	Identification Number:	UN 1814
Product RQ (lbs):	18000	DOT subrisk:	N/A
DOT labels:	8	DOT Flashpoint:	N/A

14 Transport information (....)

- Forbidden on passenger aircraft

15 Regulatory information



Corrosive

Risk Phrases

- Causes severe burns (R35)
- Harmful by inhalation (R20)

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 (S36/39)
- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) (S45)

16 Other information

(R10: Flammable. R20: Harmful by inhalation. R20/21/22: Harmful by inhalation, in contact with skin and if swallowed. R22: Harmful if swallowed. R34: Causes burns. R35: Causes severe burns. R36/37/38: Irritating to eyes, respiratory system and skin.)

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)