

SAFETY DATA SHEET

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

Product Name: **ALKALINITY CONTROL**
 Datasheet Number: 571307 7. 0. 0
 Use of the substance/preparation: Boiler water treatment
 Product Part Number: 571307 (25 liter)
 Head Office:: Wilhelmsen Ships Service
 address: Strandveien 20, N1324 Lysaker, Norway Tel:+31 6 349 440 35
 Name of Supplier: Wilhelmsen Ships Service AS
 Address of Supplier: Willem Barentszstraat 50
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 Telephone: +31 10 4877 777
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 Responsible Person: Patrick Rijdsdijk, Product HSE Manager, Tel.:+31 6 349 440 35
 Email: Patrick.Rijdsdijk@Wilhelmsen.com
 Emergency Telephone: ****ONLY TO BE USED IN CASE OF AN INCIDENT****
 NCEC: +44 1865 407333, CHEMTREC (800) 424 9300
 American Chemistry Council +1 703 527 3887,
 Greece +30 210 7793777

2 Hazards identification

Corrosive

- 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 severe burns (R35)
- Inhalation: No information available but must be considered harmful
- Ingestion: The ingestion of significant quantities may cause damage to digestive system

Classification of the substance or mixture

- Council Directive 1999/45/EEC Classification, packing and labelling of dangerous preparations.

Risk Phrases

- Causes severe burns (R35)

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)

3 Composition/information on ingredients

Chemical Name	Concentration	CAS Number	EC Number	R/H Phrases*	Symbols
Sodium hydroxide	10-30	1310-73-2	215-185-5	35	C
Non classified ingredients	70-90				

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

*See Section 16

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

- 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
 - Smoke from fires is corrosive
 - Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions
 - Vapour density - not applicable
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6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

- Wear protective clothing as per section 8

Environmental Precautions

- Do not flush spilt material into any public water system

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
- Neutralise with Acid

Special Precautions

- Wear protective clothing as per section 8
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7 Handling and storage

Precautions for safe handling

- Eyewash bottles should be available
- See Section 8

Conditions for safe storage, including any incompatibilities

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

Control parameters

- Sodium hydroxide
OES / LTEL 2 mg/m³

Exposure controls

- No special ventilation is required unless the product is used in a spray form

Occupational exposure controls

- Wear suitable protective clothing, including eye/face protection and gloves (plastic or rubber are recommended)
- During fumigation/spraying wear suitable respiratory equipment (S42)



Gloves



Suit



Goggles



No Smoking

9 Physical and chemical properties

- Odour: Odourless
- Appearance: Liquid, colourless to yellow, soluble in water
- pH 11.5 - 12.5 at 0.1 % 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) 1.30
- 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

Information on toxicological effects

- The ingestion of significant quantities may cause burning sensation
- Can cause damage to the digestive system

Inhalation

- Not regarded as a potential route of exposure.
- Can cause damage to the respiratory system

Contact with skin

- Causes severe burns (R35)
- Can cause damage to the skin

Contact with eyes

- Causes severe burns (R35)
- Can cause damage to the eyes

Ingestion

- The ingestion of significant quantities may cause damage to digestive system

Carcinogenicity

- No evidence of carcinogenic effects

12 Ecological information

Ecotoxicity

- May cause acute effects in the aquatic environment

Persistence and degradability

- Degrades by hydrolysis

Bioaccumulation Potential

- Bioaccumulation is insignificant

Mobility in soil

- Completely soluble in water

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

Waste treatment methods

- 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

Classification

- This material and/or its container must be disposed of as hazardous waste
- EU Waste class: 06 02 02

14 Transport information



Corrosive

Proper Shipping Name: SODIUM HYDROXIDE, SOLUTION

Road/Rail (ADR/RID)

Proper Shipping Name:	Sodium hydroxide, solution		
ADR UN No.:	1824	ADR Hazard Class:	8
ADR Packing Group:	ADR subrisk:		
ADR Flashpoint:			

Sea (IMDG)

Proper Shipping Name:	Sodium hydroxide, solution		
IMDG UN No.:	1824	IMDG Hazard Class.:	8
IMDG Pack Group.:	II	IMDG EmS:	F-A, S-B
IMDG subrisk:	N/A	IMDG Flashpoint:	N/A

Air (ICAO/IATA)

Proper Shipping Name:	Sodium hydroxide, solution		
ICAO Un No.:	1824	ICAO Hazard Class.:	8
ICAO Packing Group.:	II	ICAO subrisk:	N/A
ICAO Flashpoint:	N/A		

14 Transport information (....)

DOT / CFR (US Department of Transportation)

DOT Proper Shipping Name:	Sodium hydroxide, solution		
Hazardous Material:	Sodium hydroxide		
Hazard Class:	8	Identification Number:	UN 1824
Product RQ (lbs):	3640	DOT subrisk:	N/A
DOT Flashpoint:	N/A		

Special precautions for user

- Forbidden on passenger aircraft
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15 Regulatory information

Classification and labelling

- Council Directive 1999/45/EEC Classification, packing and labelling of dangerous preparations.

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

- This Safety Data Sheet has been prepared in accordance with article 31 and annex II in REACH and Directive 453/2010/EU.
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16 Other information

Text of R and S phrase codes used in this safety data sheet:- 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