Revision: 26/05/2011

SAFETY DATA SHEET

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

Product Name:	**AQUATUFF**
Datasheet Number:	607826 9. 0. 0
Use of the substance/preparation:	Cleaning agent
Product Part Number:	607826 (25 liter), 607827 (210 liter)
Head Office::	Wilhelmsen Ships Service AS
address:	Strandveien 20, N1324 Lysaker, Norway, Tel:(+47) 67 58 45 50
Name of Supplier:	Wilhelmsen Ships Service AS
Address of Supplier:	Willem Barentszstraat 50 3165AB Rotterdam The Netherlands
Telephone:	+31 10 4877 777
Fax:	+31 10 4877 888
Responsible Person:	Patrick Rijsdijk, Product HSE Manager,Tel.:+31 6 349 440 35
Email:	Patrick.Rijsdijk@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, orange, soluble in water
- Contact with eyes: Can cause damage to the eyes
- Contact with skin: Prolonged skin or eye contact may cause chemical burns
- Inhalation: Inhalation may cause severe irritation and, dependent on dose, chemical burns.
- Ingestion: No information available but must be considered harmful, The ingestion of significant quantities may cause damage to mucous membranes

Classification of the substance or mixture

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

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)

3 Composition/information on ingredients

Chemical Name	Concentration	CAS Number	EC Number	R/H Phrases*	Symbols
Fatty alcohol ethoxylate	1-5	34398-01-1	500-084-3	22, 41	Xi

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

Potassium hydroxide	1-5	1310-58-3	215-181-3	22, 35	C
Disodium metasilicate	1-5	6834-92-0	229-912-9	34, 37	C
Alkylglucoside	1-5	161074-93-7	500-529-1	41	Xi
2-(2-butoxyethoxy)ethanol	1-5	112-34-5	203-961-6	36	Xi

*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
- When in doubt or symptoms persist, seek medical attention
- 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

- Never make an unconscious person vomit or drink fluids
- 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)

5 Fire-fighting measures

- Non combustible
- Smoke from fires is irritating
- Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions

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

Immediate Actions

- Use appropriate containment to avoid environmental contamination (S57)

Methods and material for containment and cleaning up

- Absorb spillage in inert material and shovel up
- Flush spill area with copious amounts of water

Special Precautions

- Wear protective clothing as per section 8

7 Handling and storage

Precautions for safe handling

- The usual precautions for handling chemicals should be observed
- Avoid contact with skin and eyes (S24/25)
- See Section 8
- Eyewash bottles should be available

Conditions for safe storage, including any incompatibilities

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

8 Exposure controls/personal protection

Control parameters

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

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)
- No respiratory protection is required unless subject to contact with substance mist

Gloves

Suit

Goggles

No Smoking

9 Physical and chemical properties

- Odour: Odourless
- Appearance: Liquid, orange, soluble in water
- pH 13 - 14 at 100 % concentration, pH 10 - 11 at 0.1 % 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) 1.05
- 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

Information on toxicological effects

- No experimental data available

Inhalation

- Can cause damage to the respiratory system

Contact with skin

- Causes burns (R34)

Contact with eyes

- Causes severe burns (R35)

Ingestion

- The ingestion of significant quantities may cause damage to mucous membranes

11 Toxicological information (....)

Carcinogenicity

- No evidence of carcinogenic effects

12 Ecological information

Ecotoxicity

- Aquatuff was evaluated during the 8th session of IMO's Working Group on the Evaluation of Safety and Pollution Hazards of Chemicals held in London from 4 to 8 November 2002.
- The product was found to meet the requirements of paragraph 1.8.2 of the P&A Standards and is included in MEPC.2/Circ.8

Persistence and degradability

- Its main ingredients will either dissolve rapidly and dissociate in water or are readily/inherently biodegradable.

Bioaccumulation Potential

- Bioaccumulation of the components in this product 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

14 Transport information

Corrosive

Proper Shipping Name: Caustic alkali liquid, n.o.s. (potassium hydroxide solution)

Road/Rail (ADR/RID)

Proper Shipping Name:	Caustic alkali liquid, n.o.s. (potassium hydroxide solution)		
ADR UN No.:	1719	ADR Hazard Class:	8
ADR Packing Group:		ADR subrisk:	
ADR Flashpoint:			

Sea (IMDG)

Proper Shipping Name:	Caustic alkali liquid, n.o.s. (potassium hydroxide solution)		
IMDG UN No.:	1719	IMDG Hazard Class.:	8
IMDG Pack Group.:	III	IMDG EmS:	F-A, S-B
IMDG subrisk:	N/A	IMDG Flashpoint:	N/A

14 Transport information (....)

Air (ICAO/IATA)

Proper Shipping Name:	Caustic alkali liquid, n.o.s. (potassium hydroxide solution)		
ICAO Un No.:	1719	ICAO Hazard Class.:	8
ICAO Packing Group.:	III	ICAO subrisk:	N/A
ICAO Flashpoint:	N/A		

DOT / CFR (US Department of Transportation)

DOT Proper Shipping Name:	Caustic alkali liquid, n.o.s. (potassium hydroxide solution)		
Hazardous Material:	potassium hydroxide		
Hazard Class:	8	Identification Number:	UN 1719
Product RQ (lbs):	N/A	DOT subrisk:	N/A
DOT Flashpoint:	N/A		

Special precautions for user

- Forbidden on passenger aircraft

15 Regulatory information

Classification and labelling

- Counsil Directive 1999/45/EEC Classification, packing and labelling of dangerous preparations.
- This Safety Data Sheet is provided in compliance with The Dangerous Substances Directive (67/548/EEC)

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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- Composition information in accordance with Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents:
- Nonionic surfactants 5-15 %
- Amphoteric surfactants <5 %
- D-Limonene 0.001 %

16 Other information

Text of R and S phrase codes used in this safety data sheet:- R22: Harmful if swallowed; R34: Causes burns; R35: Causes severe burns; R36: Irritating to eyes; R37: Irritating to respiratory system; R41: Risk of serious damage to eyes.

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