



SAFETY DATA SHEET

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

1.1 Product identifier

- Product Name: RO ALKALINE CLEANER
- Product Part Number: 777718 (25L)

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

- Use of the substance/mixture:
Membrane cleaning compound

1.3 Details of the supplier of the safety data sheet

- Name of Supplier: Wilhelmsen Ships Service AS
- Address of Supplier: Willem Barentszstraat 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.
- Refer to current The Dangerous Substances Directive (67/548/EEC)
- Risk of serious damage to eyes (R41)
- Symbols: Xn
-
- Regulations 1272/2008/EEC. Classification, labeling and packing of dangerous substances and preparations

SECTION 2 Hazards identification (....)

- Causes serious eye damage (H318).
- Eye Dam. 1
- Signal Word: Danger
- Symbols: GHS05
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2.2 Label elements

- Signal Word: Danger
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- Hazard phrases
Causes serious eye damage (H318).
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- Precautionary Phrases
Wear protective gloves/protective clothing/eye protection/face protection (P280).
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 eye irritation persists: Get medical advice/attention (P337+P313).

2.3 Other hazards

- Odour: Characteristic odour
- Appearance: Liquid, colourless to yellow, miscible with water
- Contact with skin: Prolonged skin contact will result in defatting of the skin, leading to irritation, and in some cases, dermatitis

SECTION 3 Composition/information on ingredients**3.1 Mixtures**

- Sulfuric acid, mono-C12-14-alkyl esters, sodium salts
Concentration: 10-30%
CAS Number: 85586-07-8
EC Number: 287-809-4
Symbols: Xn - GHS05, GHS07
R/H Phrases: R22, R38, R41 - H302, H315, H318, H412
Categories: Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 3
- Alanin, N,N-bis(karboksymetyl)-, trinatiumsalt i vann
Concentration: 1-5%
CAS Number: 164462-16-2
EC Number: Not applicable
Symbols: GHS05
R/H Phrases: H290
Categories: Met. Corr. 1

SECTION 4 First aid measures**4.1 Description of first aid measures**

SECTION 4 First aid measures (....)

- IF ON SKIN: Wash with plenty of soap and water (P302+P352).
 - When in doubt or symptoms persist, seek medical attention
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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).
 - When in doubt or symptoms persist, seek medical attention
 -
 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting (P301+P330+P331).
 - Never make an unconscious person vomit or drink fluids
 - Give plenty of water to drink
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 - Inhalation is unlikely to occur
- 4.2 Most important symptoms and effects, both acute and delayed
- Can cause damage to the eyes
 - Possible redness and irritation of affected areas
- 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
- In case of fire, do not breathe fumes
 - Keep container(s) exposed to fire cool, by spraying with water
- 5.3 Advice for firefighters
- Wear chemical protection suit and positive-pressure breathing apparatus
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SECTION 6 Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
- Shut off source of leak if safe to do so
 - Wash thoroughly after dealing with spillage
 - Wear protective clothing as per section 8
- 6.2 Environmental Precautions
- Do not allow to enter public sewers and watercourses
 - Do not flush spilt material into any public water system
- 6.3 Methods and material for containment and cleaning up
- Absorb spillage in earth or sand
 - Place in sealable container
 - Remove contaminated material to safe location for subsequent disposal
 - 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
- Eyewash bottles should be available
 - Do not get in eyes, on skin, or on clothing (P262).
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SECTION 7 Handling and storage (....)

- Wear protective clothing as per section 8
- 7.2 Conditions for safe storage, including any incompatibilities
- Keep only in original container (P234).
 - Opened containers should be carefully resealed and stored in an upright position
- 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
- No exposure limits have been set for this substance
- 8.2 Exposure controls
- No special precautions are required for this product
- 8.3 Occupational exposure controls



- Respiratory protection may be required under exceptional circumstances when excessive air contamination exists
 - Wear suitable dustmask e.g. to BS 2091
 - Wear suitable respiratory protection. Gas cartridge (organic substances).
 - Wear suitable protective clothing, including eye/face protection and gloves (plastic or rubber are recommended)
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SECTION 9 Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
- Odour: Characteristic odour
 - Appearance: Liquid, colourless to yellow, miscible with water
 - pH 8,0 - 9,0
 - Density 1,01 - 1,04 g/cm³ at 20 deg C
- 9.2 Other information
- None
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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
- None
- 10.4 Conditions to avoid
- No special precautions are required for this product
- 10.5 Hazardous Decomposition Products
- Decomposition products may include toxic and irritant fumes
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SECTION 11 Toxicological information

SECTION 11 Toxicological information (....)

11.1 Information on toxicological effects

- LD50 (oral,rat) (Sulfuric acid, mono-C12-14-alkyl esters, sodium salts) - 1800 mg/kg

11.2 Contact with eyes

- May cause redness and irritation

11.3 Contact with skin

- May cause redness and irritation

11.4 Ingestion

- The ingestion of significant quantities may cause nausea/vomiting
- May cause irritation

11.5 Inhalation

- Not applicable
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SECTION 12 Ecological information

12.1 Toxicity

- LC50 (fish) (Sulfuric acid, mono-C12-14-alkyl esters, sodium salts) - 3-20 mg/l (96 hr)
- IC50 (algae) (Sulfuric acid, mono-C12-14-alkyl esters, sodium salts) - 10-100 mg/l (72 hr)
- EC50 (daphnia) (Sulfuric acid, mono-C12-14-alkyl esters, sodium salts) -10-50 mg/l (48 hr)
- Biodegradability. OECD-test. 28 days >60 % (Sulfuric acid, mono-C12-14-alkyl esters, sodium salts)
- This product does not contain ingredients which are classified in the EU as dangerous for the environment.

12.2 Persistence and degradability

- The components in this product are readily biodegradable.

12.3 Bioaccumulation Potential

- No information available

12.4 Mobility in soil

- No information available

12.5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII

12.6 Other Adverse Effects

- On available data, substance is not harmful to the environment
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SECTION 13 Disposal considerations

13.1 Waste treatment methods

- Disposal should be in accordance with local, state or national legislation
- Dispose of contents/container to an authorised waste collection point (P501)

13.2 Classification

- EU Waste class: 07 06 99
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SECTION 14 Transport information

14.1 UN

- UN No.: Not applicable
 - Proper Shipping Name: Not applicable
 - Hazard Class: Not applicable
 - Packing Group: Not applicable
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SECTION 14 Transport information (....)

Not classified as hazardous for transport

14.2 Environmental hazards

- Not Classified

14.3 Special precautions for user

- Not Classified

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

- Not Classified

14.5 Road/Rail (ADR/RID)

- ADR UN No.: Not applicable
- Proper Shipping Name: Not applicable
- ADR Hazard Class: Not applicable
- ADR subrisk: Not applicable
- ADR Packing Group: Not applicable
- ADR Flashpoint: Not applicable

14.6 Sea (IMDG)

- IMDG UN No.: Not applicable
- Proper Shipping Name: Not applicable
- IMDG Hazard Class: Not applicable
- IMDG subrisk: Not applicable
- IMDG Pack Group.: Not applicable
- IMDG EmS: Not applicable
- IMDG Flashpoint: Not applicable

14.7 Air (ICAO/IATA)

- ICAO UN No.: Not applicable
- Proper Shipping Name: Not applicable
- ICAO Packing Group: Not applicable
- ICAO Hazard Class: Not applicable
- ICAO subrisk: Not applicable
- ICAO Flashpoint: Not applicable

14.8 DOT / CFR (US Department of Transportation)

- Identification Number: Not applicable
 - DOT Proper Shipping Name: Not applicable
 - DOT Labels: Not applicable
 - Product RQ (lbs): Not applicable
 - Hazardous Material: Not applicable
 - Hazard Class: Not applicable
 - DOT subrisk: Not applicable
 - DOT Flashpoint: Not applicable
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SECTION 15 Regulatory information**15.1 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.
- This Safety Data Sheet is provided in compliance with The Dangerous Substances Directive (67/548/EEC)

SECTION 15 Regulatory information (....)

- Council Directive 1999/45/EEC Classification, packing and labelling of dangerous preparations.
- Regulations 1272/2008/EEC. Classification, labeling and packing of dangerous substances and preparations

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:- H290: May be corrosive to metals. H302: Harmful if swallowed. H315: Causes skin irritation. H318: Causes serious eye damage. H412: Harmful to aquatic life with long lasting effects. R22: Harmful if swallowed. R38: Irritating to skin. R41: Risk of serious damage to eyes.

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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