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**SAFETY DATA SHEET**

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**SECTION 1 Identification of the substance or preparation and of the company/undertaking****1.1 Product identifier**

- Product Name: FOAM CONC.UNIRAL 3M
- Product Part Number: 778186 (20L) - 778185 (200L)

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

- Use of the substance/preparation: Fire fighting foam concentrate

**1.3 Details of the supplier of the safety data sheet**

Name of Supplier:

Head Office:

Wilhelmsen Ships Service AS  
Strandveien 20, N1324 Lysaker,  
Norway Tel: (47) 6349 440 35

Supplier:

Wilhelmsen Ships Service AS  
Willem Barentszstraat 50  
3165AB Rotterdam  
Telephone: +31 4877 777  
Fax: +31 4877 888  
The Netherlands

Other suppliers SEE SECTION 16!!!

For quotations contact your local Customer Services

- 
- Responsible Person: Product HSE Manager,
- Email: Email: WSS.GLOBAL.SDSINFO@wilhelmsen.com
- Telephone: Tel.: +31 10 4877775

**1.4 Emergency telephone number**

Emergency Telephone: -ONLY TO BE USED IN CASE OF AN INCIDENTNCEC:+

44 1865 407333, CHEMTREC (800) 424 9300

American Chemistry Council +1 703 527 3887,

Greece +30 210 7793777Australia: +61 3 9630 0998

Giftinformasjonsentralen in Norway Tel.: +47 22591300

Wilhelmsen Ships Service, Melbourne, AUSTRALIA Emergency 24hrs: +61 3 9630 0998

**\*\*FOR QUOTATIONS PLEASE CONTACT YOUR LOCAL CUSTOMER SERVICES\*\*****SECTION 2 Hazards identification****2.1 Classification of the substance or mixture**

- Refer to current The Dangerous Substances Directive (67/548/EEC)
- Council Directive 1999/45/EEC Classification, packing and labelling of dangerous preparations.
- Symbols: Xi
- Irritating to eyes (R36)
- 
- Regulations 1272/2008/EEC. Classification, labeling and packing of dangerous substances and preparations
- Signal Word: Danger
- Symbols: GHS05
- Eye Dam. 1

## SECTION 2 Hazards identification (....)

- Causes serious eye damage (H318).

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### 2.2 Label elements



- Signal Word: Danger
- Eye Dam. 1
- 
- Contains:
- Sulfuric acid, mono-C6-12-alkyl esters, sodium salt
- 
- Hazard phrases
- Causes serious eye damage (H318).
- 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).
- Immediately call a POISON CENTER or doctor/physician (P310).

### 2.3 Other hazards

- Not applicable
- Not a PBT according to REACH Annex XIII
- Appearance: Liquid, light, yellow
- Odour: Characteristic odour

## SECTION 3 Composition/information on ingredients

### 3.1 Mixtures

- ethanediol, ethylene glycol  
Concentration: 20-25%  
CAS Number: 107-21-1  
EC Number: 203-473-3  
R/H Phrases: R22 - H302  
Symbols: GHS07  
Categories: Acute Tox. 4  
Index No.: 603-027-00-1
- 2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether  
Concentration: 5-10%  
CAS Number: 112-34-5  
EC Number: 203-961-6  
R/H Phrases: R36 - H319  
Symbols: Xi, GHS07  
Categories: Eye Irrit. 2  
Index No.: 603-096-00-8
- Sulfuric acid, mono-C6-12-alkyl esters, sodium salt  
Concentration: 1-5%  
CAS Number: 90583-25-8  
EC Number: 292-224-2  
R/H Phrases: R41 - H315, H318  
Symbols: GHS05  
Categories: Skin Irrit. 2, Eye Dam. 1

## SECTION 4 First aid measures

### 4.1 Description of first aid measures

- IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P341).
- IF ON SKIN: Wash with plenty of soap and water (P302+P352).
- 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).
- IF SWALLOWED: rinse mouth. Do NOT induce vomiting (P301+P330+P331).
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- When in doubt or symptoms persist, seek medical attention

### 4.2 Most important symptoms and effects, both acute and delayed

- Can cause damage to the eyes
- In cases of severe exposure, irritation may develop

### 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

- Not applicable

### 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

- Ensure adequate ventilation
- Wear protective clothing as per section 8

### 6.2 Environmental Precautions

- 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

- See Section 13
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## SECTION 7 Handling and storage

### 7.1 Precautions for safe handling

- Wear protective clothing as per section 8
- Do not get in eyes, on skin, or on clothing (P262).
- Eyewash bottles should be available

### 7.2 Conditions for safe storage, including any incompatibilities

- Keep container tightly closed (P233).

### 7.3 Specific end use(s)

- Contact supplier for further information
-

## SECTION 8 Exposure controls/personal protection

### 8.1 Control parameters

- CAS:112-34-5  
Lowest value: TLV (TWA) 10 ppm, 50mg/m<sup>3</sup>  
European Union: TLV (TWA) 10 ppm, 67,5 mg/m<sup>3</sup>
- CAS:107-21-1  
Lowest value found: vapour  
TLV (TWA) 25 mg/m<sup>3</sup>  
European Union: TLV (TWA) 52 mg/m<sup>3</sup>

### 8.2 Exposure controls

- Ensure adequate ventilation

### 8.3 Occupational exposure controls

- Wear suitable protective clothing, including eye/face protection and gloves (nitrile are recommended)
- No respiratory protection is required



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## SECTION 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Appearance: Liquid, light, yellow
- Odour: Characteristic odour
- pH: 7.5
- Boiling Point/Range: Boiling point 100 °C
- Density 1,03 g/cm<sup>3</sup> at 20 deg C

### 9.2 Other information

- No information available
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## SECTION 10 Stability and reactivity

### 10.1 Reactivity

- No hazardous reactions known if used for its intended purpose

### 10.2 Chemical stability

- This article is considered stable under normal conditions

### 10.3 Possibility of hazardous reactions

- No hazardous reactions known if used for its intended purpose

### 10.4 Conditions to avoid

- No special precautions are required for this product

### 10.5 Incompatible materials

- Incompatible with alkali metals

### 10.6 Hazardous Decomposition Products

- Decomposition products may include halogen compounds and oxides of carbon/nitrogen/sulphur
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## SECTION 11 Toxicological information

### 11.1 Information on toxicological effects

- LD50 (oral,rat) (ethanediol, ethylene glycol) 500 mg/kg
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**SECTION 11 Toxicological information (....)**

- LD50 (oral, rat) (2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether) 5660 mg/kg
- LD50 (dermal) : Rabbit - (2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether) 4120 mg/kg

**11.2 Contact with eyes**

- Can cause damage to the eyes

**11.3 Contact with skin**

- In cases of severe exposure, irritation may develop

**11.4 Ingestion**

- In cases of severe exposure, gastro-intestinal disturbances may develop

**11.5 Inhalation**

- In cases of severe exposure, irritation may develop
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**SECTION 12 Ecological information****12.1 Toxicity**

- Acute algae toxicity ErC50 > 100 mg/l *Scenedesmus* sp.
- Acute crustacea toxicity EC50 > 100 mg/l 48 *Daphnia magna*

**12.2 Persistence and degradability**

- No information available

**12.3 Bioaccumulation Potential**

- Log Pow 0,56 (25°C) - 2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether
- Log Pow -1,36 - ethanediol, ethylene glycol

**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**

- No information available
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**SECTION 13 Disposal considerations****13.1 Waste treatment methods**

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

**13.2 Classification**

- EU Waste class: 16 10 01
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**SECTION 14 Transport information**

Not classified as hazardous for transport

**14.1 UN**

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

**14.2 Environmental hazards**

- Not Classified

**14.3 Special precautions for user**

- Not Classified
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**SECTION 14 Transport information (....)**

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

- Not Classified
- Not applicable

14.5 Road/Rail (ADR/RID)

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

14.6 Sea (IMDG)

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

14.7 Air (ICAO/IATA)

- ICAO Un No.: Not applicable
- Proper Shipping Name: Not applicable
- ICAO Hazard Class: Not applicable
- ICAO Packing Group: 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
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**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)
- Regulations 1272/2008/EEC. Classification, labeling and packing of dangerous substances and preparations
- This Safety Data Sheet is provided in compliance with the EC Directive 1907/2006-453/2010

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. H315: Causes skin irritation. H318: Causes serious eye damage. H319: Causes serious eye irritation. R22: Harmful if swallowed. R36: Irritating to eyes. 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 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

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**SECTION 16 Other information (....)**

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 most up-to-date version of this MSDS can be found on [www.wilhelmsen.com/shipsservice](http://www.wilhelmsen.com/shipsservice)

**OTHER CONTACT INFORMATION MAJOR CHEMICAL OFFICES**

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Tel: +61 3 9630 0900 Emergency 24hrs: +61 3 9630 0998  
Wilhelmsen Ships Service INC 210 Edgewater Street US-10305 Staten Island New York United States  
Telephone daytime: (+1) 718 815 1310 Fax: (+1) 718 233 3268  
Wilhelmsen Ships Service INC 2200 W. Pacific Coast Highway US-90810 Long Beach California,  
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