
SAFETY DATA SHEET

This Safety Data Sheet is provided in compliance with the EC Directive 1907/2006-453/2010

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

- Product Name: UNITOR HIGH EXPANSION FOAM CONCENTRATE 2 PCT
- Product Part Number: 711390 (200 liter), 711808 (20 liter)

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

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

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: +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,
- Email: Email: WSS.GLOBAL.SDSINFO@wilhelmsen.com
- Telephone: Tel.: +31 10 4877775

1.4 Emergency telephone number

- ****ONLY TO BE USED IN CASE OF AN INCIDENT****
- International 24hrs Emergency NCEC: + 44 1865 407333
- American Chemistry Council 24hrs +1 703 527 3887
- American 24hrs Emergency CHEMTREC (800) 424 9300
- 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**

- Regulations 1272/2008/EEC. Classification, labeling and packing of dangerous substances and preparations
- Symbols: GHS07
- Signal Word: Warning
- Causes serious eye irritation (H319).
- Causes skin irritation (H315).

SECTION 2 Hazards identification (....)

- Skin Irrit. 2
- Eye Irrit. 2
-
- 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 and skin (R36/38)
-

2.2 Label elements



- Hazard phrases
 - Causes serious eye irritation (H319).
 - Causes skin irritation (H315).
- Precautionary Phrases
 - Wear protective gloves/protective clothing/eye protection/face protection (P280).
 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting (P301+P330+P331).
 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician (P301+P310).
 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower (P303+P361+P353).
 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing (P305+P351+P338).

2.3 Other hazards

- Odour: Characteristic odour
- Appearance: Liquid, pale yellow
- Contains ingredients that are dangerous for the environment (see section
- Do not allow to enter public sewers and watercourses

SECTION 3 Composition/information on ingredients

3.1 Mixtures

- 2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve
 - Concentration: 15-20%
 - CAS Number: 111-76-2
 - EC Number: 203-905-0
 - R/H Phrases: H332,H312,H302,H319,H315, R20/21/22,R36/38
 - Symbols: GHS07, Xn
 - Categories: Acute Tox. 4 Acute Tox. 4 Acute Tox. 4 Eye Irrit. 2 Skin Irrit. 2
- SODIUM-ALKYLETHERSULFATE
 - Concentration: <5%
 - CAS Number: 73665-22-2
 - EC Number: 500-485-3
 - R/H Phrases: R36/38 - H315, H319
 - Symbols: Xi, GHS07
 - Categories: Eye Irrit. 2, Skin Irrit. 2

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

- Alcohols, C12-14, ethoxylated, sulfates, sodium salts
Concentration: <5%
CAS Number: 68891-38-3
EC Number: 500-234-8
R/H Phrases: R36/38 - H315, H319
Symbols: Xi, GHS07
Categories: Eye Irrit. 2, Skin Irrit. 2
 - TRIETHANOLAMMONIUM-LAURYL SULFATE
Concentration: <20%
CAS Number: 139-96-8
EC Number: 288-134-8
R/H Phrases: R36/38 - H315, H319
Symbols: Xi, GHS07
Categories: Eye Irrit. 2, Skin Irrit. 2
 - DODECANOL
Concentration: <10%
CAS Number: 112-53-8
EC Number: 203-982-0
R/H Phrases: R36/38 - H315, H319, H411
Symbols: Xi, N, GHS07, GHS09
Categories: Skin Irrit. 2, Eye Irrit. 2, Aquatic Chronic 2
 - TETRADECANOL
Concentration: < 5%
CAS Number: 112-72-1
EC Number: 204-000-3
R/H Phrases: R36 - H315, H319, H411
Symbols: Xi, GHS07, GHS09
Categories: Eye Irrit. 2, Skin Irrit. 2, Aquatic Chronic 2
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SECTION 4 First aid measures

4.1 Description of first aid measures

- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower (P303+P361+P353).
- 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).
- Seek medical advice
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- IF SWALLOWED: rinse mouth. Do NOT induce vomiting (P301+P330+P331).
- Never give anything by mouth to an unconscious person
- Give plenty of water to drink
- Obtain immediate medical attention
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- IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P341).
- Seek medical attention if irritation persists

4.2 Most important symptoms and effects, both acute and delayed

SECTION 4 First aid measures (....)

- Vapours or aerosols may cause irritation of eyes, nose and respiratory tract
- May cause gastro-intestinal disturbances
- The ingestion of significant quantities may cause diarrhoea

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

- Smoke from fires is irritating

5.3 Advice for firefighters

- Prevent run off water from entering drains if possible
 - Wear Breathing Apparatus
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SECTION 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Wear protective clothing as per section 8

6.2 Environmental Precautions

- Do not flush spilt material into any public water system

6.3 Methods and material for containment and cleaning up

- Absorb spillage in suitable inert material
- Sweep or shovel-up spillage and remove to a safe place
- 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

- See 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

- Protect from frost
- Store between -10 and 45 °C

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

- WEL (long term) (CAS No.: 111-76-2) 10 ppm

8.2 Exposure controls

- No special precautions are required for this product

8.3 Occupational exposure controls

SECTION 8 Exposure controls/personal protection (....)



- Wear suitable protective clothing, including eye/face protection and gloves (plastic or rubber are recommended)

SECTION 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Odour: Characteristic odour
- Appearance: Liquid, pale yellow
- pH 7 - 8.5 at 100 % concentration
- Boiling point 65 °C to 100 °C at 760 mm /Hg
- Freezing point ~- 10 °C to 760 °C
- Completely soluble in water
- Specific gravity (water=1) 1.03
- Viscosity <30 cST @ 20 deg C
- Viscosity <70 cST @ 0 deg C

9.2 Other information

- None

SECTION 10 Stability and reactivity

10.1 Reactivity

- This article is considered stable under normal conditions

10.2 Chemical stability

- 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

- Avoid overheating

10.5 Incompatible materials

- None

10.6 Hazardous Decomposition Products

- No hazardous decomposition products known

SECTION 11 Toxicological information

11.1 Information on toxicological effects

- No experimental data available

11.2 Contact with eyes

- May cause redness and irritation

11.3 Contact with skin

- In cases of severe exposure, redness and irritation may develop

11.4 Ingestion

- May cause gastro-intestinal disturbances
- The ingestion of significant quantities may cause diarrhoea

11.5 Inhalation

SECTION 11 Toxicological information (....)

- Vapours or aerosols may cause irritation of eyes, nose and respiratory tract
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SECTION 12 Ecological information

12.1 Toxicity

- LC50 (fish) (Leuciscus idus (golden orfe)) >10- <100 mg/l (96 hr)
- EC50 (Daphnia magna) > 10 < 100 mg/l (48 hr)
- EC50 (Scenedesmus subspicatus) > 10 < 100 mg/l (72 hr)

12.2 Persistence and degradability

- The components in this product are readily biodegradable.

12.3 Bioaccumulation Potential

- Bioaccumulation of the components in this product is insignificant.

12.4 Mobility in soil

- Completely soluble in water

12.5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII

12.6 Other Adverse Effects

- Not applicable
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SECTION 13 Disposal considerations

13.1 Waste treatment methods

- Disposal should be in accordance with local, state or national legislation
- Do not discharge into drains or the environment, dispose to an authorised waste collection point

13.2 Classification

- EU Waste class: 16.03.05
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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 as hazardous for transport

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

- 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)

SECTION 14 Transport information (....)

- 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

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

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. H312: Harmful in contact with skin. H315: Causes skin irritation. H319: Causes serious eye irritation. H332: Harmful if inhaled. H411: Toxic to aquatic life with long lasting effects. R20/21/22: Harmful by inhalation, in contact with skin and if swallowed. R36: Irritating to eyes. R36/38: Irritating to eyes 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 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 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

OTHER CONTACT INFORMATION MAJOR CHEMICAL OFFICES

Wilhelmsen Ships Service Level 17, 636 St Kilda Road Melbourne Vic 3004 AUSTRALIA
Tel: +61 3 9630 0900 Emergency 24hrs: +61 3 9630 0998

SECTION 16 Other information (....)

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