
SAFETY DATA SHEET

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

1.1 Product identifier

Product Name: UNIVERSAL INDICATOR SOLUTION
Datasheet Number: 777987 1. 0. 0
Product Part Number: 777987 (BW Test Kit)
Part of: MO380-Boiler test kit - MO383 mUpHI
Head Office: Wilhelmsen Ships Service AS
Address: Strandveien 20, N1324 Lysaker, Norway, Tel:(+47) 67 58 45 50

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

Reagent

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
+31 4877 888
The Netherlands
Telephone: +31 4877 777
Fax:
Responsible Person: Patrick.Rijsdijk, Product HSE Manager, Tel.:+31 6 349 440 35
Email: Patrick.Rijsdijk@wilhelmsen.com

1.4 Emergency telephone number

-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
Australia: +61 3 9630 0998
Giftinformasjonentralen in Norway Tel.: +47 22591300

2 Hazards identification

2.1 Classification of the substance or mixture

- Regulations 1272/2008/EEC. Classification, labeling and packing of dangerous substances and preparations
- Flam. Liq. 2

2.2 Label elements



- Signal Word: Danger
- Symbols: F+, GHS02

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2 Hazards identification (....)

Hazard phrases

- Highly flammable liquid and vapour.

Precautionary Phrases

- Wear protective gloves/protective clothing/eye protection/face protection.
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- Keep container tightly closed.
- Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Risk Phrases

- Highly Flammable (R11)

Safety Phrases

- Keep away from sources of ignition - No Smoking (S16)
- Wear suitable protective clothing, eye/face protection and gloves (S36/37/39)
- In case of fire use alcohol resistant foam (S43)

2.3 Other hazards

- Odour: Alcohol odour
- Appearance: Liquid, dark, green, soluble in water
- Contact with eyes: May cause redness and irritation
- Contact with skin: May cause redness and irritation
- Inhalation: May cause shortness of breath
- Ingestion: May cause severe irritation, May cause nausea/vomiting

3 Composition/information on ingredients

3.1 Mixtures

Chemical Name	Concentration	CAS Number	EC Number	R/H Phrases*	Symbols
Ethanol	>80%	64-17-5	200-578-6	R11	F
CLP classification: Flam. Liq. 2				H225	GHS02
Methanol	1-5%	67-56-1	200-659-6	R11, 23/24/25 R39/23/24/25	F, T
CLP classification: Flam. Liq. 2, Acute Tox. 3 STOT SE 1				H225, H331, H311, H301, H370	GHS02, GHS06 GHS08

*See Section 16

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

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4 First aid measures (....)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

- When in doubt or symptoms persist, seek medical attention
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- IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
- Give plenty of water to drink
- When in doubt or symptoms persist, seek medical attention
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- IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.
- When in doubt or symptoms persist, seek medical attention

4.2 Most important symptoms and effects, both acute and delayed

- Possible redness and irritation of affected areas
- The ingestion of significant quantities may cause dry throat
- The ingestion of significant quantities may cause nausea/vomiting
- In cases of severe exposure, dry throat may develop

4.3 Indication of immediate medical attention and special treatment needed

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5 Fire-fighting measures

5.1 Extinguishing media

- In case of fire: use water, alcohol resistant foam or dry agent for extinction

5.2 Special hazards arising from the substance or mixture

- Highly flammable liquid and vapour.
- Smoke from fires is toxic. Take precautions to protect personnel from exposure
- See Section 10

5.3 Advice for firefighters

- Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback
 - Wear chemical protection suit and positive-pressure breathing apparatus
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6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Wear protective clothing as per section 8
- Use non-sparking handtools
- Vapours may ignite
- Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback

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
 - Collect spillage.
 - Place in appropriate container
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6 Accidental release measures (....)

- Seal containers and label them
- 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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7 Handling and storage

7.1 Precautions for safe handling

- Eyewash bottles should be available
- Ensure adequate ventilation
- Take precautionary measures against static discharge.
- See Section 8

7.2 Conditions for safe storage, including any incompatibilities

- Keep in a cool, dry, well ventilated place
- Keep only in original container.
- Keep away from open flames, hot surfaces and sources of ignition.

7.3 Specific end use(s)

- Restricted to professional users
-

8 Exposure controls/personal protection

8.1 Control parameters

- Ethanol
TLV (TWA) 1920 mg/m³ ()
- Methanol
TLV (TWA) 266 mg/m³ ()

8.2 Exposure controls

- Ensure adequate ventilation

Occupational exposure controls

- Take precautionary measures against static discharge.
- In case of inadequate ventilation wear respiratory protection.
- Wear goggles giving complete eye protection
- Wear neoprene or nitrile gloves



Gloves



Goggles

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Odour: Alcohol odour
 - Appearance: Liquid, colourless, miscible with water
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9 Physical and chemical properties (....)

- Boiling point 78.3 °C
- Lower flammability limit 3.3%(in air), Upper flammability limit 19%(in air), Flash point 14 deg C (CC)
- Auto-ignition point 393 deg C

9.2 Other information

- None
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10 Stability and reactivity

10.1 Reactivity

- This article is considered stable under normal conditions

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

- Keep away from heat and sources of ignition
- Keep away from naked flames, incandescent or hot surfaces

10.5 Incompatible materials

- Incompatible with strong oxidizing substances

10.6 Hazardous Decomposition Products

- Decomposition products may include carbon dioxide
 - Decomposition products may include nitrogen oxides
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11 Toxicological information

11.1 Information on toxicological effects

- No information available

Inhalation

- In cases of severe exposure, severe irritation may develop
- In cases of severe exposure, shortness of breath may develop

Contact with skin

- May cause redness and irritation

Contact with eyes

- May cause redness and irritation

Ingestion

- May cause irritation
 - In cases of severe exposure, dry throat may develop
 - May cause nausea/vomiting
-

12 Ecological information

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12 Ecological information (...)

12.1 Toxicity

- This product does not contain ingredients which are classified in the EU as dangerous for the environment.
- No information available

12.2 Persistence and degradability

- No information available

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

- No information available
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13 Disposal considerations

13.1 Waste treatment methods

- Disposal should be in accordance with local, state or national legislation
- Dispose of this material and its container at hazardous or special waste collection point (S56)

Classification

- EU Waste class: 16-05-6
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14 Transport information



Flammable Liquid

14.1 UN Number

- UN1987

14.2 UN Proper Shipping Name

- ALCOHOLS, N.O.S. (ETHANOL; METHANOL)

14.3 Transport hazard class(es)

- 3

14.4 Packing group

- II

14.5 Environmental hazards

- Presents no hazard to the environment

14.6 Special precautions for user

- When supplied as part of a kit: The kit may be transported under classification UN3316 CHEMICAL KIT
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14 Transport information (...)

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

- Not applicable

Other information

Road/Rail (ADR/RID)

Proper Shipping Name:	ALCOHOLS, N.O.S. (ETHANOL; METHANOL)		
ADR UN No.:	UN1987	ADR Hazard Class:	3
ADR Packing Group:	II	ADR subrisk:	-
ADR Flashpoint:	12C		

Sea (IMDG)

Proper Shipping Name:	ALCOHOLS, N.O.S. (ETHANOL; METHANOL)		
IMDG UN No.:	UN1987	IMDG Hazard Class.:	3
IMDG Pack Group.:	II	IMDG EmS:	F-E, S-D
IMDG subrisk:	-	IMDG Flashpoint:	12C

Air (ICAO/IATA)

Proper Shipping Name:	ALCOHOLS, N.O.S. (ETHANOL; METHANOL)		
ICAO Un No.:	UN1987	ICAO Hazard Class.:	3
ICAO Packing Group.:	II	ICAO subrisk:	
ICAO Flashpoint:	12C		

DOT / CFR (US Department of Transportation)

DOT Proper Shipping Name:	ALCOHOLS, N.O.S. (ETHANOL; METHANOL)		
Hazardous Material:	ETHANOL; METHANOL		
Hazard Class:	3	Identification Number:	UN1987
Product RQ (lbs):	-	DOT subrisk:	-
DOT Flashpoint:	12C		

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.

15.2 Chemical Safety Assessment

None

16 Other information

Text of R and S phrase codes used in this safety data sheet:- H225: Highly flammable liquid and vapour.; H301: Toxic if swallowed.; H311: Toxic in contact with skin.; H331: Toxic if inhaled.; H370: Causes damage to organs.; R11: Highly Flammable; R23/24/25: Toxic by inhalation, in contact with skin and if swallowed; R39/23/24/25: Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

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

16 Other information (....)

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

For addresses of other Wilhelmsen Ships Service offices, please refer to www.wilhelmsen.com/shipsservice

Wilhelmsen Ships Service Level 1, 39 Park Street South Melbourne, Vic 3205 Australian 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, United States
Tel (+1) 562 624 8888 Fax (+1) 562 624 1011

Wilhelmsen Ships Service INC 701 Ashland Ave. Ashland Center Two, Bay 12 US- 19032 Folcroft Pennsylvania
United States Tel (+1) 610 586 7801 Fax (+1) 215 701 0646

Wilhelmsen Ships Service INC 701 Ashland Ave. Ashland Center Two, Bay 12 US- 19032 Folcroft Pennsylvania
United States Tel (+1) 610 586 7801 Fax (+1) 215 701 0646

Wilhelmsen Ships Service INC. 9400 New Century Drive US-77507 Pasadena Texas United States Telephone
daytime: (+1) 281 867 2000 Fax: (+1) 281 867 2800

Wilhelmsen Ships Service Ltd. Unit 3A NewtonsCourt Crossways DA2 6QL Dartford, Kent United Kingdom Tel
(+44) 1322 282 412 Fax (+44) 1322 284 774

Wilhelmsen Ships Service Ltda Rua Bispo Lacerda nos.61/67 Del Catilho BR 21051120 Rio de Janeiro Brazil Tel
(+55) 21 25 82 8000 Fax (+55) 21 25 82 8001

Wilhelmsen Ships Service (S) Pte Ltd 186 Pandan Loop Singapore 128376 Tel (+65) 6395 4545

Wilhelmsen Ships Service Co., Ltd 12-31 Torihama-cho Kanazawa-ku Yokohama-shi JP-236 0002, Japan Tel
(+81) 45 775 0012 Fax (+81) 45 775 0070

Wilhelmsen Ships Service Hellas SA 100, D. Moutsopoulou & Serifou str GR-185 41 Piraeus Greece Tel (+ 30)
210 4239100 Fax (+ 30) 210 4212480

WMS AS U.A.E. Fl 24 Executive Heights, Tecom C Sheikh Zayed Road (East) Dubai United Arab Emirates Tel
(+971) 4 382 3888

