

SAFETY DATA SHEET

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

1.1 Product identifier

Product Name: CONDENSATE CONTROL
Datasheet Number: 774828-r 1. 0. 0
Product Part Number: 774828 (25 liter)
Part of: Wilhelmsen Ships Service AS
Head Office: Strandveien 20, N1324 Lysaker, Norway, Tel: (+47) 67584550

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

Boiler water treatment

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 10 4877 777
Fax: +31 10 4877 888
Responsible Person: Patrick Rijdsijk, Product HSE Manager, Tel.:+31 6 349 440 35
Email: patrick.rijdsijk@wilhelmsen.com

1.4 Emergency telephone number

****ONL 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

2 Hazards identification

2.1 Classification of the substance or mixture

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

2.2 Label elements



Corrosive

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 gloves and eye/face protection (S37/39)
-

CONDENSATE CONTROL

2 Hazards identification (....)

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) (S45)

2.3 Other hazards

- Odour: Amine odour
- Appearance: Liquid, pale yellow, miscible with water
- Inhalation: May cause irritation
- Can cause damage to the eyes, skin and mucous membranes

3 Composition/information on ingredients

Chemical Name	Concentration	CAS Number	EC Number	R/H Phrases*	Symbols
2-Aminoethanol	5-10	141-43-5	205-483-3	20/21/22, 34	C
2-Diethylaminoethanol	1-5	100-37-8	202-845-2	10, 20/21/22, 34	C
Non classified ingredients	60-100				

*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
-
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Get immediate medical advice/attention.
-
- IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
- Give plenty of water to drink
- Never make an unconscious person vomit or drink fluids
-
- 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

- The ingestion of significant quantities may cause gastro-intestinal disturbances
- Mildly irritating to respiratory system
- Can cause damage to the eyes, skin and mucous membranes

4.3 Indication of immediate medical attention and special treatment needed

5 Fire-fighting measures

5.1 Extinguishing media

- In case of fire use water spray or fog, alcohol resistant foam, dry chemical or carbon dioxide (S43)

CONDENSATE CONTROL

5 Fire-fighting measures (....)

5.2 Special hazards arising from the substance or mixture

- Smoke from fires is toxic. Take precautions to protect personnel from exposure

5.3 Advice for firefighters

- Wear chemical protection suit and positive-pressure breathing apparatus
-

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Wear protective clothing as per section 8

6.2 Environmental Precautions

- Avoid release to the environment.
- Do not flush spilt material into any public water system

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
- Place in sealable container
- Seal containers and label them
- Remove contaminated material to safe location for subsequent disposal

6.4 Reference to other sections

- None
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7 Handling and storage

7.1 Precautions for safe handling

- Avoid contact with skin and eyes (S24/25)
- Eyewash bottles should be available
- See Section 8
- Wear protective clothing as per section 8

7.2 Conditions for safe storage, including any incompatibilities

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

7.3 Specific end use(s)

8 Exposure controls/personal protection

8.1 Control parameters

- 2-Aminoethanol
TLV (TWA) 2.5 mg/m³ ()
- 2-Diethylaminoethanol
TLV (TWA) 50 mg/m³ ()

8.2 Exposure controls

- Engineering controls should be provided which maintain airborne concentrations as low as practicable
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CONDENSATE CONTROL

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

Occupational exposure controls

- Wear suitable protective clothing, including eye/face protection and gloves (plastic or rubber are recommended)
- Respiratory protection may be required under exceptional circumstances when excessive air contamination exists



Goggles



Gloves



Suit



Respirator

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Odour: Amine odour
- Appearance: Liquid, pale yellow, soluble in water
- pH 11.5 - 12.5 at 100 % concentration, pH 10 at 1 % concentration
- Boiling point ~ 100 °C at 760 mm /Hg
- Vapour pressure - not known
- Vapour density - not known
- Completely soluble in water
- Density 0.99 - 1.101 g/cm³ at 20 deg C

9.2 Other information

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

- Incompatible with acid

10.6 Hazardous Decomposition Products

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

11.1 Information on toxicological effects

- LD50 (oral,rat) 2100 mg/kg
 - (2-Aminoethanol)
-

11 Toxicological information (....)

- LD50 (skin, rat) (2-aminoethanol) 1500 mg/kg
- LD50 (oral, rat) 1320 mg/kg
- (2-Diethylaminoethanol)
- LD50 (skin, rat) (2-diethylaminoethanol) 1100 mg/kg

Inhalation

- In cases of severe exposure, irritation may develop

Contact with skin

- Prolonged skin or eye contact may cause chemical burns

Contact with eyes

- Prolonged skin or eye contact may cause chemical burns

Ingestion

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

Carcinogenicity

- No evidence of carcinogenic effects
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12 Ecological information

12.1 Toxicity

- LC50 (fish) (2-aminoethanol) 150 mg/l (96 hr)
- LC50 (fish) (2-diethylaminoethanol) 100-200 mg/l (96 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

12.6 Other Adverse Effects

13 Disposal considerations

13.1 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

- EU Waste class: 07.01
 - This material and/or its container must be disposed of as hazardous waste
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14 Transport information

14 Transport information (...)



Corrosive

14.1 UN Number

- UN2735

14.2 UN Proper Shipping Name

- Amines, liquid, corrosive, N.O.S.(2-aminoethanol, 2-diethylaminoethanol mixture)

14.3 Transport hazard class(es)

- 8

14.4 Packing group

- III

14.5 Environmental hazards

- Presents little or no hazard to the environment

14.6 Special precautions for user

- Forbidden on passenger aircraft

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:	Amines, liquid, corrosive, N.O.S.(2-aminoethanol, 2-diethylaminoethanol mixture)		
ADR UN No.:	UN2735	ADR Hazard Class:	8
ADR Packing Group:	III	ADR subrisk:	-
ADR Flashpoint:	-		

Sea (IMDG)

Proper Shipping Name:	Amines, liquid, corrosive, N.O.S.(2-aminoethanol, 2-diethylaminoethanol mixture)		
IMDG UN No.:	UN2735	IMDG Hazard Class.:	8
IMDG Pack Group.:	III	IMDG EmS:	F-A, S-B
IMDG subrisk:	-	IMDG Flashpoint:	-

Air (ICAO/IATA)

Proper Shipping Name:	Amines, liquid, corrosive, N.O.S.(2-aminoethanol, 2-diethylaminoethanol mixture)		
ICAO Un No.:	UN2735	ICAO Hazard Class.:	8
ICAO Packing Group.:	III	ICAO subrisk:	-
ICAO Flashpoint:	-		

CONDENSATE CONTROL

14 Transport information (...)

DOT / CFR (US Department of Transportation)

DOT Proper Shipping Name:	Amines, liquid, corrosive, N.O.S.(2-aminoethanol, 2-diethylaminoethanol mixture)		
Hazardous Material:	2-aminoethanol, 2-diethylaminoethanol		
Hazard Class:	8	Identification Number:	UN2735
Product RQ (lbs):	-	DOT subrisk:	-
DOT Flashpoint:	-		

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)
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- This product is approved by the Norwegian Health Authorities and listed in Approved/evaluated chemicals for use in potable water supply onshore and offshore.

15.2 Chemical Safety Assessment

None

16 Other information

Text of R and S phrase codes used in this safety data sheet:- R10: Flammable; R20/21/22: Harmful by inhalation, in contact with skin and if swallowed; R34: Causes burns.

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

