

SAFETY DATA SHEET

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

1.1 Product identifier

- Product Name: ACETYLENE DISSOLVED
- Product Part Number: ACETYLENE DISSOLVED

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

- Use of the substance/mixture:
- Gas for welding and cutting

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

- Council Directive 1999/45/EEC Classification, packing and labelling of dangerous preparations.
- Dangerous Substances Directive (67/548/EEC). Classification, packaging and labelling of dangerous substances
- Symbols: F+
- Heating may cause an explosion (R5)
- Explosive with or without contact with air (R6)
- Extremely Flammable (R12)

SECTION 2 Hazards identification (....)

- Regulations 1272/2008/EEC. Classification, labeling and packing of dangerous substances and preparations
- Symbols: GHS04, GHS02
- Flam. Gas 1
- Press. Gas
- Explosive with or without contact with air (EUH006).

2.2 Label elements



- Signal Word: Danger
- Hazard phrases
 - Extremely flammable gas (H220).
 - Contains gas under pressure; may explode if heated (H280).
 - Explosive with or without contact with air (EUH006).
- Precautionary Phrases
 - Keep away from heat/sparks/open flames/hot surfaces. – No smoking (P210).
 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely (P377).
 - Eliminate all ignition sources if safe to do so (P381).
 - Store in a well-ventilated place (P403).

2.3 Other hazards

- Odour: Strong smell of garlic
- Appearance: Gas dissolved under pressure
- Contact with eyes: May cause irritation, Looking into the welding / brazing flame with incorrect or insufficient eye protection may cause arc-eye.
- Contact with skin: May cause irritation
- Inhalation: Inhalation of fumes formed during welding and or cutting may be harmful.

SECTION 3 Composition/information on ingredients

3.1 Mixtures

- acetylene; ethyne
 - Concentration: >98 %
 - CAS Number: 74-86-2
 - EC Number: 200-816-9
 - R/H Phrases: H220, EUH006, R5,R6,R12
 - Symbols: GHS02,GHS04, F+
 - Categories: Flam. Gas 1 Press. Gas

SECTION 4 First aid measures

4.1 Description of first aid measures

- Rescuers should take suitable precautions to avoid becoming casualties themselves
- Rescuers should put on approved respiratory protection before entering the area to render first aid
- IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P341).

SECTION 4 First aid measures (....)

- Apply artificial respiration only if patient is not breathing
 - Call a POISON CENTER or doctor/physician (P311).
- 4.2 Most important symptoms and effects, both acute and delayed
- Aspiration hazard
 - In cases of severe exposure, breathing difficulty may develop
 - In cases of severe exposure, dizziness, confusion, headache or stupor may develop

 - In cases of severe exposure, nausea/vomiting may develop
 - In cases of severe exposure, respiratory failure may develop
 - In cases of severe exposure, unconsciousness 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
- Leaking gas fire: Do not extinguish, unless leak can be stopped safely (P377).
- 5.2 Special hazards arising from the substance or mixture
- Inform Fire Brigade of potential danger of exploding and rocketing cylinders
 - Pressurized container
- 5.3 Advice for firefighters
- Inform Fire Brigade of potential danger of exploding and rocketing cylinders
 - In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion (P370+P380+P375).
 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely (P377).
 - Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback
 - Keep container(s) exposed to fire cool, by spraying with water
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SECTION 6 Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
- Shut off all ignition sources
 - Do not smoke
 - May form explosive vapour/air mixtures
 - Evacuate the area
 - Shut off source of leak if safe to do so
 - In confined spaces, sewers, etc., the vapours may collect to form explosive mixtures with air
- 6.2 Environmental Precautions
- No special precautions are required for this product
- 6.3 Methods and material for containment and cleaning up
- Shut off source of leak if safe to do so
 - Ventilate area
- 6.4 Reference to other sections
- None
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SECTION 7 Handling and storage

- 7.1 Precautions for safe handling
- Use proper hoisting equipment
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SECTION 7 Handling and storage (....)

- See information supplied by manufacturer
- (Unitor welding handbook)
- Keep away from heat/sparks/open flames/hot surfaces. – No smoking (P210).
- Do not subject to grinding/shock/ (P250)
- Use only outdoors or in a well-ventilated area (P271).

7.2 Conditions for safe storage, including any incompatibilities

- Keep in a cool, dry, well ventilated place
- Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 deg C
- Keep away from open flames, hot surfaces and sources of ignition.

7.3 Specific end use(s)

- Contact supplier for further information
-

SECTION 8 Exposure controls/personal protection

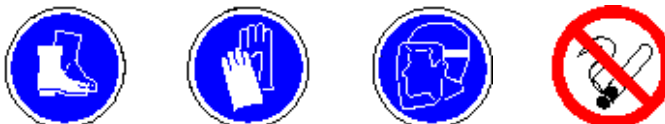
8.1 Control parameters

- TLV (TWA) 5 mg/m³ (Welding fumes)

8.2 Exposure controls

- No special requirements

8.3 Occupational exposure controls



- In case of insufficient ventilation, wear suitable positive pressure respiratory protection equipment
 - Wear safety boots when handling cylinders.
 - Wear suitable filter lenses when welding / cutting.
 - Wear leather gloves, boots and apron
-

SECTION 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Odour: Strong smell of garlic
- Appearance: Gas dissolved under pressure
- pH - not applicable
- Boiling point - 84 °C to 760 °C
- Vapour density (air = 1) 0.9
- Freezing point -84 °C to 760 °C
- Melting point - 81 °C to 760 °C
- Water solubility 1.2 g/l
- Density
- Auto-ignition point 305 deg C at 760 mm Hg
- Lower explosive limit 2.2 % (in air)
- Upper explosive limit >85 % (in air)

9.2 Other information

- No information available
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SECTION 10 Stability and reactivity

10.1 Reactivity

SECTION 10 Stability and reactivity (....)

- This article is considered stable under normal conditions
- 10.2 Chemical stability
- Sensitive to shock
- 10.3 Possibility of hazardous reactions
- May form explosive dust/air mixtures
- 10.4 Conditions to avoid
- Keep away from naked flames, incandescent or hot surfaces
 - Keep away from heat and sources of ignition
 - Keep away from static electricity
- 10.5 Incompatible materials
- Incompatible with silver, mercury, copper and their alloys containing more than 67% copper.
- 10.6 Hazardous Decomposition Products
- No hazardous decomposition products known
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SECTION 11 Toxicological information

- 11.1 Information on toxicological effects
- Non-toxic
 - Asphyxiant
- 11.2 Contact with eyes
- May cause irritation
- 11.3 Contact with skin
- May cause irritation
- 11.4 Ingestion
- Not regarded as a potential route of exposure.
- 11.5 Inhalation
- Inhalation of fumes formed during welding and or cutting may be harmful.
 - In cases of severe exposure, breathing difficulty may develop
 - Asphyxiant
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SECTION 12 Ecological information

- 12.1 Toxicity
- On available data, substance is not harmful to aquatic life
- 12.2 Persistence and degradability
- Not applicable
- 12.3 Bioaccumulation Potential
- Not applicable
- 12.4 Mobility in soil
- This substance is volatile
- 12.5 Results of PBT and vPvB assessment
- Not a PBT according to REACH Annex XIII
- 12.6 Other Adverse Effects
- Presents no hazard to the environment
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SECTION 13 Disposal considerations

- 13.1 Waste treatment methods
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SECTION 13 Disposal considerations (....)

- Contact supplier for further information
- 13.2 Classification
- Not applicable
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SECTION 14 Transport information

14.1 UN

- UN No.: UN1001
- Proper Shipping Name: Acetylene, dissolved
- Hazard Class: 2.1
- Packing Group: N/A

14.2 Environmental hazards

- On available data, substance is not harmful to the environment

14.3 Special precautions for user

- Gas cylinders must be equipped with valve protection caps during 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.: UN1001
- Proper Shipping Name: Acetylene, dissolved
- ADR Hazard Class: 2.1
- ADR Packing Group: N/A

14.6 Sea (IMDG)

- IMDG UN No.: UN1001
- Proper Shipping Name: Acetylene, dissolved
- IMDG Hazard Class: 2.1
- IMDG Pack Group.: N/A
- IMDG EmS: F-D, S-U

14.7 Air (ICAO/IATA)

- ICAO UN No.: UN1001
- Proper Shipping Name: Acetylene, dissolved
- ICAO Hazard Class: 2.1
- ICAO Packing Group: N/A

14.8 DOT / CFR (US Department of Transportation)

- Identification Number: UN1001
 - DOT Proper Shipping Name: Acetylene, dissolved
 - DOT Labels: 2.1
 - 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

SECTION 15 Regulatory information (....)

- Regulations 1272/2008/EEC. Classification, labeling and packing of dangerous substances and preparations
- This Safety Data Sheet has been prepared in accordance with article 31 and annex II in REACH and Directive 453/2010/EU.
- Dangerous Substances Directive (67/548/EEC). Classification, packaging and labelling of dangerous substances
- Council Directive 1999/45/EEC Classification, packing and labelling of dangerous 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:-
EUH006: Explosive with or without contact with air. H220: Extremely flammable gas. R12: Extremely Flammable. R5: Heating may cause an explosion. R6: Explosive with or without contact with air.

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

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SECTION 16 Other information (....)

