

**Acetylene CLEAN (dissolved)****001\_03****SECTION 1. Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Trade name : Acetylene CLEAN (dissolved) , ACETYLENE N26, ACETYLENE ALTOP  
SDS no : 001\_03

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

Relevant identified uses : Industrial and professional. Perform risk assessment prior to use.  
Test gas / Calibration gas. Chemical reaction / Synthesis. Fuel gas for welding, cutting,  
heating, brazing and soldering applications. Laboratory use.  
Contact supplier for more uses information.  
Use as a fuel.

Consumer uses : Fuel gas for welding, cutting, heating, brazing and soldering applications.

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

Company identification : AIR LIQUIDE Deutschland GmbH  
Hans-Günther-Sohl-Straße 5  
D-40235 Düsseldorf GERMANY  
Telefon: +49 (0)211 6699-0 - Fax: +49 (0)211 6699-222

E-Mail address (competent person) : Info.SDB@AirLiquide.de

**1.4. Emergency telephone number**

Emergency telephone number : +49 (0)2151 398668  
- Availability : ( 24 / 7 )

**SECTION 2. Hazards identification****2.1. Classification of the substance or mixture****Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)**

• Physical hazards : Chemically unstable gases - Category A - (CLP : Chem. Unst. Gas A) - H230  
Flammable gases - Category 1 - Danger - (CLP : Flam. Gas 1) - H220  
Gases under pressure - Dissolved gas - Warning - (CLP : Press. Gas) - H280

**2.2. Label elements****Labelling Regulation EC 1272/2008 (CLP)**

• Hazard pictograms



• Hazard pictograms code : GHS02 - GHS04

• Signal words : Danger

• Hazard statements : H230 - May react explosively even in the absence of air.  
H220 - Extremely flammable gas.  
H280 - Contains gas under pressure; may explode if heated.

• Precautionary statements

- Prevention : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.  
No smoking.  
P202 - Do not handle until all safety precautions have been read and understood.

- Response : P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely.  
P381 - Eliminate all ignition sources if safe to do so.

- Storage : P403 - Store in a well-ventilated place.



# SAFETY DATA SHEET in accordance with REACH regulation 1907/2006/EC

Page : 2 / 11

Revised edition no : 2 - 00

Date : 20 / 7 / 2015

Supersedes : 0 / 0 / 0

## Acetylene CLEAN (dissolved)

001\_03

### SECTION 2. Hazards identification (continued)

#### 2.3. Other hazards

Other hazards : None.

### SECTION 3. Composition/information on ingredients

#### 3.1. Substance / 3.2. Mixture

Mixture.

Substance name	Content [Vol-%]	CAS No EC No Index No Registration no.	Classification(DSD)	Classification(CLP)
Acetylene (dissolved)	: 100 %	74-86-2 200-816-9 601-015-00-0 01-2119457406-36-		Flam. Gas 1 (H220) Chem. Unst. Gas A (H230) Press. Gas (H280)
Phosphine	: 0.02 %	7803-51-2 232-260-8 015-181-00-1 * 2		Acute Tox. 1 (H330) Flam. Gas 1 (H220) Skin Corr. 1B (H314) Liq. Gas (H280) Aquatic Acute 1 (H400)
Hydrogen sulphide	: 0.015 %	7783-06-4 231-977-3 016-001-00-4 * 2		Acute Tox. 2 (H330) Flam. Gas 1 (H220) STOT SE 3 (H335) Liq. Gas (H280) Aquatic Acute 1 (H400)

The cylinder contains a porous material which in some cases contains asbestos fibres. The asbestos fibres are encapsulated in the solid porous material and are not released under normal conditions of use. See section 13 for the disposal of those cylinders.

Dimethylformamide is on the Candidate List of Substances of Very High Concern (SVHC) that might be subject to authorization for future placing on the market and uses.

Contains no other components or impurities which will influence the classification of the product.

For safety reasons, the acetylene is dissolved in acetone (Flam. Liq. 2, Eye Irrit. 2, STOT SE 3) or dimethylformamide (Repr. 1B, Acute Tox. 4, Eye Irrit. 2) in the gas receptacle. Vapour of the solvent is carried away as impurity when the acetylene is extracted from the gas receptacle. The concentration of the solvent vapour in the gas is lower than the concentration limits to change the classification of the acetylene.

\* 1: Listed in Annex IV / V REACH, exempted from registration.

\* 2: Registration deadline not expired.

\* 3: Registration not required: Substance manufactured or imported < 1t/y

Full text of R-phrases see chapter 16. Full text of H-statements see chapter 16

### SECTION 4. First aid measures

#### 4.1. Description of first aid measures

- Inhalation : Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped.
- Skin contact : Adverse effects not expected from this product.
- Eye contact : Adverse effects not expected from this product.
- Ingestion : Ingestion is not considered a potential route of exposure.

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

- : In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation.  
In low concentrations may cause narcotic effects. Symptoms may include dizziness, headache, nausea and loss of co-ordination.

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# SAFETY DATA SHEET in accordance with REACH regulation 1907/2006/EC

Page : 3 / 11

Revised edition no : 2 - 00

Date : 20 / 7 / 2015

Supersedes : 0 / 0 / 0

**Acetylene CLEAN (dissolved)**

**001\_03**

## SECTION 4. First aid measures (continued)

### 4.3. Indication of any immediate medical attention and special treatment needed

: Obtain medical assistance.

## SECTION 5. Fire-fighting measures

### 5.1. Extinguishing media

- Suitable extinguishing media : Dry powder.  
Water spray or fog.
- Unsuitable extinguishing media : Carbon dioxide.  
Do not use water jet to extinguish.

### 5.2. Special hazards arising from the substance or mixture

- Specific hazards : Exposure to fire may cause containers to rupture/explode.
- Hazardous combustion products : Incomplete combustion may form carbon monoxide.

### 5.3. Advice for firefighters

- Specific methods : Move containers away from the fire area if this can be done without risk. Do not extinguish a leaking gas flame unless absolutely necessary. Spontaneous/explosive re-ignition may occur. Extinguish any other fire. If possible, stop flow of product. Continue water spray from protected position until container stays cool.  
Use fire control measures appropriate to the surrounding fire. Exposure to fire and heat radiation may cause gas receptacles to rupture. Cool endangered receptacles with water spray jet from a protected position. Prevent water used in emergency cases from entering sewers and drainage systems.  
Use water spray or fog to knock down fire fumes if possible.
- Special protective equipment for fire fighters : In confined space use self-contained breathing apparatus.  
Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask.  
Standard protective clothing and equipment (Self Contained Breathing Apparatus) for fire fighters.  
Standard EN 469 - Protective clothing for firefighters. Standard - EN 659: Protective gloves for firefighters.

## SECTION 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

- : Act in accordance with local emergency plan.  
Stay upwind.  
Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. Ensure adequate air ventilation. Eliminate ignition sources.  
Evacuate area.  
Try to stop release.  
Consider the risk of potentially explosive atmospheres.

### 6.2. Environmental precautions

- : Try to stop release.

### 6.3. Methods and material for containment and cleaning up

- : Ventilate area.

### 6.4. Reference to other sections

- Reference to other sections : See also sections 8 and 13.

**Acetylene CLEAN (dissolved)****001\_03****SECTION 6. Accidental release measures (continued)****SECTION 7. Handling and storage****7.1. Precautions for safe handling****Safe use of the product**

- : Do not breathe gas.
- Avoid release of product into atmosphere.
- Take precautionary measures against static discharge.
- Keep away from ignition sources (including static discharges).
- Avoid contact with pure copper, mercury, silver and brass with greater than 65% copper.
- Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt.
- Purge air from system before introducing gas.
- Do not smoke while handling product.
- Avoid suck back of water, acid and alkalis.
- Only experienced and properly instructed persons should handle gases under pressure.
- Ensure the complete gas system was (or is regularly) checked for leaks before use.
- Assess the risk of potentially explosive atmosphere and the need for explosion-proof equipment.
- Solvent may accumulate in piping systems. For maintenance use appropriate resistant gloves (specify for DMF or acetone), goggles.
- Consider the use only non-sparking tools.
- The product must be handled in accordance with good industrial hygiene and safety procedures.
- Operating pressure in piping should be limited to 1.5 bar (gauge) or less due to more stringent national regulations (with maximum diameter DN25).
- Consider the use of flash back arrestors.
- For further information on safe use refer to EIGA code of practise acetylene (IGC Doc 123/04).
- Do not use alloys containing more than 43% silver.
- Consider pressure relief device(s) in gas installations.

**Safe handling of the gas receptacle**

- : Refer to supplier's container handling instructions.
- Do not allow backfeed into the container.
- Replace valve outlet caps or plugs and container caps where supplied as soon as container is disconnected from equipment.
- Protect cylinders from physical damage; do not drag, roll, slide or drop.
- Do not remove or deface labels provided by the supplier for the identification of the cylinder contents.
- When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders.
- Leave valve protection caps in place until the container has been secured against either a wall or bench or placed in a container stand and is ready for use.
- If user experiences any difficulty operating cylinder valve discontinue use and contact supplier.
- Close container valve after each use and when empty, even if still connected to equipment.
- Never attempt to repair or modify container valves or safety relief devices.
- Keep container valve outlets clean and free from contaminants particularly oil and water.
- Never attempt to transfer gases from one cylinder/container to another.
- Never use direct flame or electrical heating devices to raise the pressure of a container.
- Damaged valves should be reported immediately to the supplier.

**7.2. Conditions for safe storage, including any incompatibilities**

- : Keep container below 50°C in a well ventilated place.
- Segregate from oxidant gases and other oxidants in store. Store containers in location free from fire risk and away from sources of heat and ignition. Stored containers should be periodically checked for general condition and leakage.
- Observe all regulations and local requirements regarding storage of containers.
- Containers should not be stored in conditions likely to encourage corrosion. Containers should be stored in the vertical position and properly secured to prevent toppling. Container valve guards or caps should be in place. All electrical equipment in the storage areas should be



# SAFETY DATA SHEET in accordance with REACH regulation 1907/2006/EC

Page : 5 / 11

Revised edition no : 2 - 00

Date : 20 / 7 / 2015

Supersedes : 0 / 0 / 0

**Acetylene CLEAN (dissolved)****001\_03**

## SECTION 7. Handling and storage (continued)

compatible with the risk of potentially explosive atmosphere. Keep away from combustible materials.

### 7.3. Specific end use(s)

: None.

## SECTION 8. Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational Exposure Limits

##### Hydrogen sulphide

: ILV (EU) - 8 H - [mg/m<sup>3</sup>] : 7  
: ILV (EU) - 8 H - [ppm] : 5  
: ILV (EU) - 15 min - [mg/m<sup>3</sup>] : 14  
: ILV (EU) - 15 min - [ppm] : 10  
: AGW (8h) - Germany [mg/m<sup>3</sup>] TRGS 900 : 7.1  
: AGW (8h) - Germany [ppm] TRGS 900 : 5  
: Exceeding factor AGW - Germany TRGS 900 : 2

##### Phosphine

: ILV (EU) - 8 H - [mg/m<sup>3</sup>] : 0.14  
: ILV (EU) - 8 H - [ppm] : 0.1  
: ILV (EU) - 15 min - [mg/m<sup>3</sup>] : 0.28  
: ILV (EU) - 15 min - [ppm] : 0.2  
: AGW (8h) - Germany [mg/m<sup>3</sup>] TRGS 900 : 0.1  
: AGW (8h) - Germany [ppm] TRGS 900 : 0.14  
: Exceeding factor AGW - Germany TRGS 900 : 2

#### DNEL: Derived no effect level (Workers)

##### Acetylene (dissolved)

: Inhalation-short term (systemic) [mg/m<sup>3</sup>] : 2675  
: Inhalation-short term (systemic) [ppm] : 2500  
: Inhalation-long term (systemic) [mg/m<sup>3</sup>] : 2675  
: Inhalation-long term (systemic) [ppm] : 2500

#### PNEC: Predicted no effect concentration

: No data available.

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

: Provide adequate general and local exhaust ventilation. Systems under pressure should be regularly checked for leakages. Gas detectors should be used when flammable gases/vapours may be released. The substance is not classified for human health hazards or for environment effects and it is not PBT or vPvB so that no exposure assessment or risk characterisation is required. For tasks where the intervention of workers is required, the substance must be handled in accordance with good industrial hygiene and safety procedures. Consider work permit system e.g. for maintenance activities.

#### 8.2.2. Individual protection measures, e.g. personal protective equipment

: A risk assessment should be conducted and documented in each work area to assess the risks related to the use of the product and to select the PPE that matches the relevant risk. The following recommendations should be considered. Wear goggles with suitable filter lenses when use is cutting/welding. PPE compliant to the recommended EN/ISO standards should be selected.

##### • Eye/face protection

: Wear safety glasses with side shields  
Standard EN 166 - Personal eye-protection.

**Acetylene CLEAN (dissolved)****001\_03****SECTION 8. Exposure controls/personal protection (continued)**

- Skin protection
  - Hand protection : Wear working gloves when handling gas containers.  
Standard EN 388 - Protective gloves against mechanical risk.
  - Other : Consider the use of flame resistant anti-static safety clothing.  
Standard EN ISO 14116 - Limited flame spread materials.  
Standard EN ISO 1149-5 - Protective clothing: Electrostatic properties.  
Wear safety shoes while handling containers.  
Standard EN ISO 20345 - Personal protective equipment - Safety footwear.
- Respiratory protection : None necessary.
- Thermal hazards : None necessary.
- 8.2.3. Environmental exposure controls : Refer to local regulations for restriction of emissions to the atmosphere. See section 13 for specific methods for waste gas treatment.

**SECTION 9. Physical and chemical properties****9.1. Information on basic physical and chemical properties**

- Appearance
- Physical state at 20°C / 101.3kPa : Gas.
- Colour : Colourless.
- Odour : Poor warning properties at low concentrations. Garlic like.
- Odour threshold : Odour threshold is subjective and inadequate to warn for overexposure.
- pH value : Not applicable.
- Molar mass [g/mol] : 26
- Melting point / Freezing point : 11.1
- Melting point [°C] : -80.8
- Boiling point [°C] : -84 (s)
- Critical temperature [°C] : 35
- Flash point [°C] : Not applicable for gases and gas-mixtures.
- Evaporation rate (ether=1) : Not applicable for gases and gas-mixtures.
- Flammability range [vol% in air] : 2.3 to 100
- Vapour pressure [20°C] : 44 bar
- Relative density, gas (air=1) : 0.9
- Relative density, liquid (water=1) : Not applicable.
- Solubility in water [mg/l] : 1185
- Partition coefficient n-octanol/water [log Pow] : 0.37
- Auto-ignition temperature [°C] : 305
- Decomposition point [°C] : 635
- Viscosity at 20°C [mPa.s] : 0.011
- Explosive Properties : Not applicable.
- Oxidising properties : None.

**9.2. Other information**

: None.

**Acetylene CLEAN (dissolved)****001\_03****SECTION 10. Stability and reactivity****10.1. Reactivity**

: No reactivity hazard other than the effects described in sub-sections below.

**10.2. Chemical stability**: Dissolved in a solvent supported in a porous mass.  
Stable under recommended handling and storage conditions (see section 7).**10.3. Possibility of hazardous reactions**: May decompose violently at high temperature and/or pressure or in the presence of a catalyst.  
Can form explosive mixture with air.  
May react violently with oxidants.  
May react explosively even in the absence of air.**10.4. Conditions to avoid**: Keep away from heat/sparks/open flames/hot surfaces. – No smoking.  
High pressure.  
High temperature.**10.5. Incompatible materials**: Forms explosive acetylides with copper, silver and mercury.  
Do not use alloys containing more than 65% copper.  
Air, Oxidiser.  
For additional information on compatibility refer to ISO 11114  
Do not use alloys containing more than 43% silver.**10.6. Hazardous decomposition products**

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**SECTION 11. Toxicological information****11.1. Information on toxicological effects**

<b>Acute toxicity</b>	: Acetylene has low inhalation toxicity, the LOAEC for mild intoxication in humans with no residual effects is 100.000ppm(107,000 mg/m3). There are no data on oral and dermal toxicity (studies are not technically feasible as the substance is a gas at room temperature). Classification criteria are not met.
<b>Skin corrosion/irritation</b>	: No known effects from this product.
<b>Serious eye damage/irritation</b>	: No known effects from this product.
<b>Respiratory or skin sensitisation</b>	: No known effects from this product.
<b>Carcinogenicity</b>	: No known effects from this product.
<b>Germ cell mutagenicity</b>	: No known effects from this product.
<b>Reproductive toxicity</b>	: No known effects from this product.
<b>STOT-single exposure</b>	: No known effects from this product.
<b>STOT-repeated exposure</b>	: No known effects from this product.
<b>Aspiration hazard</b>	: Not applicable for gases and gas-mixtures.



# SAFETY DATA SHEET in accordance with REACH regulation 1907/2006/EC

Page : 8 / 11

Revised edition no : 2 - 00

Date : 20 / 7 / 2015

Supersedes : 0 / 0 / 0

**Acetylene CLEAN (dissolved)****001\_03**

## SECTION 12. Ecological information

### 12.1. Toxicity

Assessment	: Classification criteria are not met.
EC50 48h - Daphnia magna [mg/l]	: 242 0.12
EC50 72h - Algae [mg/l]	: 57 1.87
LC50-96h - fish [mg/l]	: 545 0.007 to 0.019

### 12.2. Persistence and degradability

Assessment	: Will rapidly degrade by indirect photolysis in air. Will not undergo hydrolysis.
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### 12.3. Bioaccumulative potential

Assessment	: Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9.
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### 12.4. Mobility in soil

Assessment	: Because of its high volatility, the product is unlikely to cause ground or water pollution.
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### 12.5. Results of PBT and vPvB assessment

: Not classified as PBT or vPvB.

### 12.6. Other adverse effects

Effect on ozone layer	: No known effects from this product.
Effect on the global warming	: No known effects from this product.

## SECTION 13. Disposal considerations

### 13.1. Waste treatment methods

: Avoid discharge to atmosphere.  
Do not discharge into areas where there is a risk of forming an explosive mixture with air.  
Waste gas should be flared through a suitable burner with flash back arrestor.  
Refer to the code of practice of EIGA (Doc. 30/10 "Disposal of Gases, downloadable at <http://www.eiga.org>) for more guidance on suitable disposal methods  
Ensure that the emission levels from local regulations or operating permits are not exceeded.

List of hazardous waste codes (from Commission Decision 2001/118/EC)	: 16 05 04: Gases in pressure containers (including halons) containing dangerous substances.
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### 13.2. Additional information

: Dispose of cylinder via gas supplier only; Cylinder contains a porous material which in some cases contains asbestos fibres and is saturated with a solvent (acetone or dimethylformamide).



**Acetylene CLEAN (dissolved)****001\_03****SECTION 14. Transport information****14.1. UN number**

UN number : 1001  
Labelling ADR, IMDG, IATA



: 2.1 : flammable gas.

**14.2. UN proper shipping name**

Transport by road/rail (ADR/RID) : ACETYLENE, DISSOLVED  
Transport by air (ICAO-TI / IATA-DGR) :  
ACETYLENE, DISSOLVED  
Transport by sea (IMDG) :  
ACETYLENE, DISSOLVED

**14.3. Transport hazard class(es)**

Transport by road/rail (ADR/RID)  
Class : 2  
Classification code : 4 F  
H.I. nr : 239  
Tunnel Restriction : B/D Tank carriage: Passage forbidden through tunnels of category B, C, D  
Transport by air (ICAO-TI / IATA-DGR)  
Transport by sea (IMDG)  
Emergency Schedule (EmS) - Fire : F-D  
Emergency Schedule (EmS) - Spillage : S-U

**14.4. Packing group**

Transport by road/rail (ADR/RID) : Not applicable.  
Transport by air (ICAO-TI / IATA-DGR) : Not applicable.  
Transport by sea (IMDG) : Not applicable.

**14.5. Environmental hazards**

Transport by road/rail (ADR/RID) : None.  
Transport by air (ICAO-TI / IATA-DGR) : None.  
Transport by sea (IMDG) : No

**14.6 Special precautions for user**

Packing Instruction(s)  
Transport by road/rail (ADR/RID) : P200  
Transport by air (ICAO-TI / IATA-DGR)  
Passenger and Cargo Aircraft : DO NOT LOAD IN PASSENGER AIRCRAFT.  
Cargo Aircraft only : Allowed.  
Packing instruction - Cargo Aircraft only : 200  
Special precautions for user :  
- Ensure there is adequate ventilation.  
Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency.  
Before transporting product containers :  
- Ensure that containers are firmly secured.  
- Ensure cylinder valve is closed and not leaking.  
- Ensure valve outlet cap nut or plug (where provided) is correctly fitted.  
- Ensure valve protection device (where provided) is correctly fitted.



# SAFETY DATA SHEET in accordance with REACH regulation 1907/2006/EC

Page : 10 / 11

Revised edition no : 2 - 00

Date : 20 / 7 / 2015

Supersedes : 0 / 0 / 0

**Acetylene CLEAN (dissolved)****001\_03**

## SECTION 14. Transport information (continued)

Avoid transport on vehicles where the load space is not separated from the driver's compartment.

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

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not applicable.

## SECTION 15. Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU legislation

Restrictions on use : None.

Seveso directive 96/82/EC : Listed.

#### National legislation

: Ensure all national/local regulations are observed.

- 4. BlmschV (Germany) : Listed.

- Technical instruction air (Germany): : Chapter 5.2.5 Organic substances, Class: no data, following limits may not be exceeded in off-gas: mass-flow 0,5kg/h and mass-concentration 50mg/m<sup>3</sup>

- Water hazard class (WGK) : WGK Germany: Not hazardous to waters.

- Other regulations and technical rules (not complete) : [German regulations]  
BetriebssicherheitsV mit TRBSen insbesondere TRBS 3145 / TRGS 725 "Ortsbewegliche Druckgasbehälter", TRGS 2141, BGR Regel 500 Teil 2.33: "Umgang mit Gasen", GefahrstoffV mit Technischen Regeln Gefährliche Stoffe TRGS insbesondere TRGS 407 "Tätigkeiten mit Gasen - Gefährdungsbeurteilung", TRGS 400, 500, 510, 900.  
BGR 104, TRBS 2152.

### 15.2. Chemical safety assessment

: A Chemical safety assessment (CSA) has been carried out for this product.  
Refer to section 8.2.

An exposure assessment does not need to be carried out for this product.

## SECTION 16. Other information

Indication of changes : Revised safety data sheet in accordance with commission regulation (EU) No 453/2010

Training advice : The hazard of asphyxiation is often overlooked and must be stressed during operator training.  
Ensure operators understand the flammability hazard.

Further information : This Safety Data Sheet has been established in accordance with the applicable European Union legislation.

List of full text of H-statements in section 3. : H230 - May react explosively even in the absence of air.  
- 239

H220 - Extremely flammable gas.

H280 - Contains gas under pressure; may explode if heated.

H314 - Causes severe skin burns and eye damage.

H330 - Fatal if inhaled.

H335 - May cause respiratory irritation.

H400 - Very toxic to aquatic life.

DISCLAIMER OF LIABILITY : Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out.

Details given in this document are believed to be correct at the time of going to press. Whilst proper care has been taken in the preparation of this document, no liability for injury or damage resulting from its use can be accepted.



**SAFETY DATA SHEET**  
**in accordance with REACH**  
**regulation 1907/2006/EC**

Page : 11 / 11

Revised edition no : 2 - 00

Date : 20 / 7 / 2015

Supersedes : 0 / 0 / 0

**Acetylene CLEAN (dissolved)**

**001\_03**

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

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