

STEELMAN GASES PVT LTD. Factory Add. Plot No.21, Survey No.-439/2, Rajkot Highway, Vill.Shekhpar Surendranagar(GUJARAT).



Revised edition no : 0 Date : 6 / 12 / 2016 Supersedes : 0 / 0 / 0

Acetylene (dissolved)

SECTION 2. Hazards identification (continued)

Hazard pictograms



- · Hazard pictograms code
- Signal word

Hazard statements

2.3. Other hazards

- Supplemental hazard information
- Precautionary statements
- Prevention
- Response
- Storage

- : GHS02 GHS04
- : Danger
- : H220 Extremely flammable gas.
- H280 Contains gas under pressure; may explode if heated.
- : EUH006 Explosive with or without contact with air.
- : P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- : P377 Leaking gas fire : Do not extinguish, unless leak can be stopped safely.
- P381 Eliminate all ignition sources if safe to do so.
- : P403 Store in a well-ventilated place.
- : None.

| SECTION 3. Composition/information on ingredients | | | | |
|---|-----------------------------------|--|--|--|
| .2. Mixture | • | | | |
| Contents | CAS No, EC No, Index No | Classification(DSD) | Classification(CLP) | |
| | Registration no | | | |
| 100 % | 74-86-2, 200-816-9, | F+; R12,R-5,R-6 | Flam. Gas 1 (H220), Press. | |
| | 601-015-00-0 01-2119457406-36- | | Gas Dissolved (H280), Expl. (EUH006) | |
| • | 2. Mixture Contents | Contents CAS No, EC No, Index No Registration no 100 % 74-86-2, 200-816-9, 601-015-00-0 | Contents CAS No, EC No, Index No Classification(DSD) Registration no Classification(DSD) 100 % 74-86-2, 200-816-9, 601-015-00-0 F+; R12,R-5,R-6 | |

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 ex

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

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 section 16. Full text of H-statements see section 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.

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

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SECTION 4. First aid measures (continued)

: Obtain medical assistance.

SECTION 5. Firefighting measures

| Suitable extinguishing media Unsuitable extinguishing media | : Water spray or fog. Dry powder. : Do not use water jet to extinguish. Carbon dioxide. |
|--|---|
| 5.2. Special hazards arising from the sub | stance 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 fire-fighters | |
| Specific methods | : Use fire control measures appropriate for 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 fro If possible, stop flow of product. Continue water spray from protected position until container stays cool. Do not extinguish a leaking gas flame unless absolutely necessary. Spontaneous/explosive re-ignition may occur. Extinguish any other fire. 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. |

6.1. Personal precautions, protective equipment and emergency procedures

| | : Try to stop release. Consider the risk of potentially explosive atmospheres. Wear self-contained breathing apparatus when entering |
|---|--|
| | area unless atmosphere is proved to be safe. Evacuate area. Ensure |
| | adequate air ventilation. Eliminate ignition sources. |
| 6.2. Environmental precautions | : Try to stop release. |
| 6.3. Methods and material for containment a | ind cleaning up |
| | : Ventilate area. |
| 6.4. Reference to other sections | : See also sections 8 and 13. |
| | |



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SECTION 7. Handling and storage

7.1. Precautions for safe handling Safe use of the product

: Only experienced and properly instructed persons should handle gases under pressure. The substance must be handled in accordance with good industrial hygiene and safety procedures. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Avoid contact with pure copper, mercury, silver and brass with greater than 65% copper. Do not use alloys containing more than 43% silver. Take precautionary measures against static discharge. Purge air from system before introducing gas. Keep away from ignition sources (including static discharges). Do not smoke while handling product. Assess the risk of potentially explosive atmospheres and the need for explosion-proof equipment. Consider the use of only non-sparking tools. Ensure the complete gas system was (or is regularily) checked for leaks before use. Solvent may accumulate in piping systems. For maintenance use appropriate resistant gloves (specify for DMF or acetone), goggles. Avoid suck back of water, acid and alkalis. 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 practice acetylene (IGC Doc 123/04). Consider pressure relief device(s) in gas installations. Do not use alloys containing more than 43% silver. : Refer to supplier's container handling instructions. Do not allow back feed into

Safe handling of the gas receptacle the container. Protect cylinders from physical damage; do not drag, roll, slide or drop. 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. Never attempt to repair or modify container valves or safety relief devices. Damaged valves should be reported immediately to the supplier. Keep container valve outlets clean and free from contaminants particularly oil and water. Replace valve outlet caps or plugs and container caps where supplied as soon as container is disconnected from equipment. Close container valve after each use and when empty, even if still connected to equipment. 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. Do not remove or deface labels provided by the supplier for the identification of the cylinder contents.

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. Containers should be stored in the vertical position and properly secured to prevent toppling. Stored containers should be periodically checked for general condition and leakage. Container valve guards or caps should be in place. Store containers in location free from fire risk and away from sources of heat and ignition. All electrical equipment in the storage areas should be compatible with the risk of a potentially explosive atmosphere. Observe all regulations and local requirements regarding storage of containers. Containers should not be stored in conditions likely to encourage corrosion. Keep away from combustible materials.

7.3. Specific end use(s)

: None.



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SECTION 8. Exposure controls/personal protection

8.1. Control parameters **Occupational Exposure Limits** Acetylene (dissolved) : VME-CH [ma/m3] : 1080 : TWA BG 8h [mg/m3] : 20 DNEL: Derived no effect level (Workers) : Inhalation-short term (systemic) [mg/m3] : 2675 Acetylene (dissolved) : Inhalation-short term (systemic) [ppm] : 2500 : Inhalation-long term (systemic) [mg/m3] : 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 : Gas detectors should be used when flammable gases/vapours may be released. Consider work permit system e.g. for maintenance activities. Systems under pressure should be regularly checked for leakages. Provide adequate general and local exhaust ventilation. 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 characterization is required. For tasks where the intervention of workers is required, the substance must 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: PPE compliant to the recommended EN/ISO standards should be selected. Wear goggles with suitable filter lenses when use is cutting / welding. • Eye/face protection : Wear safety glasses with side shields. Skin protection : Wear working gloves when handling gas containers. Standard EN - Hand protection 388 - Protective gloves against mechanical risk. : Consider the use of flame resistant anti-static safety clothing. - Other 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 : Refer to local regulations for restriction of emissions to the controls 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 Colour Odour Odour threshold

pH value Molar mass [g/mol] Melting point / Freezing point Melting point [°C]

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: Colourless.
: Garlic like. Poor warning properties at low concentrations.
: Odour threshold is subjective and inadequate to warn for overexposure.
: Not applicable.
: 26
: 11.1
:-80.8

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SECTION 9. Physical and chemical properties (continued) 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 - 100 Vapour pressure [20°C] : 44 bar Relative density, gas (air=1) Relative density, liquid (water=1) : 0.9 : Not applicable. Solubility in water [mg/l] : 1185 Partition coefficient n-octanol/water [: 0.37 log Kow] Auto-ignition temperature [°C] : 305 Decomposition point [°C] : 635 Viscosity at 20°C [mPa.s] : 0.011 Not applicable. **Explosive Properties** : Not applicable. **Oxidising Properties** : None. 9.2. Other information Other information : None. **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 react violently with oxidants. Can form explosive mixture with air. May decompose violently at high temperature and/or pressure or in the presence of a catalyst. 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 temperature. High pressure. 10.5. Incompatible materials : Air. Oxidizer. Forms explosive acetvlides with copper. silver and mercury. Do not use alloys containing more than 65% copper. Do not use alloys containing more than 43% silver. For additional information on compatibility refer to ISO 11114. **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 Acute toxicity : 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. Skin corrosion/irritation : No known effects from this product. Serious eye damage/irritation : No known effects from this product. Respiratory or skin sensitisation : No known effects from this product. Carcinogenicity : No known effects from this product. Germ cell mutagenicity : No known effects from this product. Reproductive toxicity : No known effects from this product. STOT-single exposure No known effects from this product. STOT-repeated exposure : No known effects from this product. Aspiration hazard : Not applicable for gases and gas-mixtures.

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SECTION 12. Ecological information

| : No known ecological damage caused by this product. : 242 : 57 : 545 |
|---|
| : Will rapidly degrade by indirect photolysis in air. Will not undergo hydrolysis. |
| : Not expected to bio accumulate due to the low log Know (log Know < 4).Refer to section 9. |
| Because of its high volatility, the product is unlikely to cause ground or water pollution. |
| : Not classified as PBT or vPvB. |
| : No known effects from this product. : No known effects from this product. |
| |
| : 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 EIGA code of practice Doc.30 "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. |
| : 16 05 04: Gases in pressure containers (including halons) containing dangerous substances. |
| : Dispose of cylinder via gas supplier only; Cylinder contains a porous |
| |

SECTION 13. Disposal considerations (continued)

| SECTION 14. Transport information | |
|-------------------------------------|---|
| UN number | : 1001 |
| Labelling ADR, IMDG, IATA | : 2.1 : Flammable gases |
| | |
| Land transport (ADR/RID) | |
| H.I. nr | : 239 |
| UN proper shipping name | : ACETYLENE, DISSOLVED |
| Transport hazard class(es) | : 2 |
| Classification code | : 4 F |
| Packing Instruction(s) | : P200 |
| Tunnel Restriction | : B/D Tank carriage: Passage forbidden through tunnels of category B, |
| | C, D and Another |
| | Carriage: Passage forbidden through tunnels of category D and E |
| Environmental hazards | :None. |
| Sea transport (IMDG) | |
| Proper shipping name | : ACETYLENE, DISSOLVED |
| Class | : 2.1 |
| Emergency Schedule (EmS) - Fire | : F-D |
| Emergency Schedule (EmS) - Spillage | : S-U |
| IMDG-Marine pollutant | : No |
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| Air transport (ICAO-TI / IATA-DGR) | |
|--|--|
| Proper shipping name (IATA) | : ACETYLENE, DISSOLVED |
| Class | : 2.1 |
| Passenger and Cargo Aircraft | : DO NOT LOAD IN PASSENGER AIRCRAFT. |
| Cargo Aircraft only | : Allowed. |
| Packing instruction - Cargo Aircraft | : 200 |
| Only | |
| Special precautions for user | |
| | : Avoid transport on vehicles where the load space is not separated |
| | from the driver's compartment. |
| | 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. |
| | - Ensure there is adequate ventilation. |
| Transport in bulk according to Annex | : Not applicable. |
| II of MARPOL 73/78 and the IBC Code | |
| CECTION 45 Demulatery information | |
| SECTION 15. Regulatory information | |
| | lations/legislation specific for the substance or mixture |
| EU legislation | |
| Restrictions on use | : None. |
| Seveso directive 96/82/EC | : Listed. |
| | |
| Netter et le steletter | |
| National legislation | . Ensure all national/local regulations are abaar red |
| National legislation National legislation | : Ensure all national/local regulations are observed. |
| National legislation | Ŭ |
| National legislation 15.2. Chemical safety assessment | : Ensure all national/local regulations are observed. : CSA has been carried out. Refer to section 8.2. |
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| National legislation 15.2. Chemical safety assessment SECTION 16. Other information Indication of changes Training advice List of full text of R-phrases in section 3. List of full text of H-statements in | : CSA has been carried out. Refer to section 8.2. : Revised safety data sheet in accordance with commission regulation (EU) No 453/2010. : Ensure operators understand the flammability hazard. The hazard of asphyxiation is often overlooked and must be stressed during operator training. : R5: Heating may cause an explosion. R6: Explosive with or without contact with air. R12: Extremely flammable. : EUH006 - Explosive with or without contact with air. |
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