**Material Safety Data Sheet**

**Acetylene Gas Cylinder** (RXSOL-16-6154-040)

## 1. Product and Company Identifaction

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|---|---|
| Product Name | **Acetylene Gas Cylinder** |
| Product Type | **RXSOL-16-6154-040** |

Company Details:
RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
VASHI ,NEW BOMBAY 400703 INDIA

| | |
|---|---|
| Phone | +91 22 27815540 - 43 |
| Fax | +91 22 2781 1318 :::AOH :0091 9322594669 |
| Email | mail@rxmarine.com |

## 2. Composition / informationon ingredients

**Substance / Preparation :**

| Substance name | Contents | CAS No | EC No | Annex No | Classi?cation |
|---|---|---|---|---|---|
| Acetylene (dissolved) | 100 % | 74-86-2 | 200-816-9 | 601-015-00-0 | F+; R12 R5 R6 |

Contains no other components or impurities which will in?uence the classi?cation of the product

## 3. Hazards Identification

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| Hazard classication : | Classi?ed as hazardous according to NOHSC criteria. Classi?ed as a dangerous good by the criteria of the ADG code. |
| Hazards identi?cation : | Dissolved gas. Extremely ?ammable |
| R Phrase(s) : R5 : | Heating may cause an explosion. -R6 : Explosive with or without contact with air. - R12 : Extremely ?ammable S Phrase(s) : S9 : Keep container in a well-ventilated |
| place. - S16 : | Keep away from sources of ignition - No smoking. - S33 : Take precautionary measures against static discharges. |

## 4. First Aid Measures

**Inhalation :**
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. Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply arti?cial respiration i breathing stopped.

**Ingestion :**
Ingestion is not considered a potential route of exposure.

## 5. Fire-fighting Measures

**Flammable class :**
Extremely ?ammable

**Speci?c hazard :**
Exposure to ?re may cause containers to rupture/explode. Hazardous combustion products : Incomplete combustion may form carbon monoxide.

**Extinguishing media:**
**Suitable extinguishing media :**
All known extinguishants can be used. Speci?c method : If possible, stop ?ow of product Move away from the container and cool with water from a protected position. Continue water spray from protected position until container stays cool. Do not extinguish a leaking gas ?ame unless absolutely necessary. Spontaneous/ explosive re-ignition may occur. Extinguish any other ?re Special protective equipment for ?r : In con?ned space use self-contained breathing apparatus. ?ghter

## 6. Accidental Release Measures

**Personal precautions :**
Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. Evacuate area. Ensure adequate air ventilation. Eliminate ignition sources.

**Environmental precautions :**
Try to stop release.

**Clean up methods :**
Ventilate area.

## 7. Handling and Storage

**Storage :**
Segregate from oxidant gases and other oxidants in store. Keep container below 50°C in a well ventilated place.

**Handling :**
Ensure equipment is adequately earthed.Avoid contact with pure copper, mercury, silver and brass with greater than 70% copper. Suck back of water into the container must be prevented. Purge air from system before introducing gas. Do not allow backfeed into the container. Use only properly speci?ed equipment which is suitable for this product, its supply pressure and temperature.

Contact your gas supplier if in doubt. Keep away from ignition sources (including static discharges). Refer to supplier's container handling instructions.

## 8. Exposure controls and personal protection

**Personal protection :**
Ensure adequate ventilation. Wear suitable hand, body and head protection. Wear goggles with suitable ?lte lenses when use is cutting/welding. Do not smoke while handling product.

## 9. Physical and chemical properties

**Information on basic physical and chemical properties:**

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| Physical state at 20 °C : | Dissolved gas. |
| Colour | Colourless gas. |
| Odour | Garlic like. Poor warning properties at low concentrations. |
| Molecular weight | 26 |
| Melting point [°C] : | -80.8 |
| Boiling point [°C] : | -84 (s) |
| Critical temperature [° C]: | 35 |
| 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 |
| Flammability range [vol% in air] : | 2.34 to 83 |
| Auto-ignition temperature [°C] : | 325 |

## 10. Stability and reactivity

**Stability and reactivity :**
Can form explosive mixture with air. May decompose violently at high temperature and/or

pressure or in the presence of a catalyst. Forms explosive acetylides with copper, silver and mercury. Do not use alloys containing more than 70% copper. Dissolved in a solvent supported in a porous mass. May react violently with oxidants.

## 11. Toxicological information

**Acute toxicity :**
No known toxicological effects from this product.

## 12. Ecological information

**Ecological effects information :**
No known ecological damage caused by this product.

## 13. Disposal considerations

**General :**
Do not discharge into areas where there is a risk of forming an explosive mixture with air. Waste gas should be ?ared through a suitable burner with ?ash bacarrestor. Do not discharge into any place where its accumulation could be dangerous. Contact supplier if guidance is required.

## 14. Transport information

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| UN No: | 1001 |
| Labelling ADG : | Label 2.1 : ?ammable gas |
| H.I. nr : | 239 |
| Proper shipping name : | ACETYLENE, DISSOLVED |
| HAZCHEM - Emergency Action Code : | 2SE |
| ADG Class | 2 |
| ADG Classi?cation cod | 4 F |
| Other transport information : | 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 :<br>- Ensure that containers are ?rmly secured<br>- Ensure cylinder valve is closed and not leaking.<br>- Ensure valve outlet cap nut or plug (where provided) is correctly ?tted<br>-Ensure valve protection device (where provided) is correctly ?tted<br>- Ensure there is adequate ventilation.<br>- Compliance with applicable regulations. |

E There may be a public safety hazard outside the immediate area of the incident,and that the following actions should be considered :

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| 1 | People should be warned to stay indoors with all doors and windows closed, preferably in rooms upstairs and facing away from the incident. Ignition sources should be eliminated and any ventilation stopped. |
| 2 | Effects may spread beyond the immediate vicinity. all nonessential personnel should be instructed to move at least 250 metres away from the incident. |
| 3 | Police and ?re brigade incident commanders should consult each other and with a product expert, or with a source of product expertise. |
| 4 | The possible need for subsequent evacuation should be considered, but it should be remembered that in most cases it will be safer to remain in a building than to evacuate. |

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| 2 = | Fine water spray. |
| S = | Risk of violent reaction or explosion. Recommended personal protective equipment : Full ?re kit and breathing apparatus. Appropriate measures : dilute |

## 15. Regulatory information

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| EC Classi?cation : | Annex No : 601-015-00-0<br>F+; R12<br>R5<br>R6<br>EC Labelling |
| Symbol(s) : F+ : | Extremely ?ammable |
| R Phrase(s) : R5 : | Heating may cause an explosion. |
| R12 : | Extremely ?ammable |
| S Phrase(s) : S9 : | Keep container in a well-ventilated place. |
| S16 : | Keep away from sources of ignition - No smoking. |
| S33 : | Take precautionary measures against static discharges. |

## 16. Other information

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.