

1. Product and Company Identification

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

Company Details:

RX MARINE INTERNATIONAL
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2. Composition / Information on ingredients

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Substance / Preparation :

Substance name	Contents	CAS No	EC No	Annex No
Acetylene (dissolved)	100 %	74-86-2	200-816-9	601-015-00

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

3. Hazards Identification

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Hazard classification : Classified as hazardous according to NOHSC criteria. Classified as a dangerous good by the criteria of the ADG code.

Hazards identification : Dissolved gas. Extremely flammable

R Phrase(s) : R5 : Heating may cause an explosion. -R6 : Explosive with or without contact with air. - R12 : Extremely flammable 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

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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 artificial respiration if breathing stopped.

Ingestion :

Ingestion is not considered a potential route of exposure.

5. Fire-fighting Measures

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Flammable class :

Extremely flammable

Specific hazard :

Exposure to fire 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. Specific method : If possible, stop flow 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 flame unless absolutely necessary. Spontaneous/explosive re-ignition may occur. Extinguish any other fire. Special protective equipment for fire : In confined space use self-contained breathing apparatus.

fighter

6. Accidental Release Measures

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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

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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 specified 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

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Personal protection :

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

9. Physical and chemical properties

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Information on basic physical and chemical properties:

Physical state at 20 °C :	Dissolved gas.
Colour	Colourless gas.
Odour	Garlic like. Poor warning properties at 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

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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

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Acute toxicity :

No known toxicological effects from this product.

12. Ecological information

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Ecological effects information :

No known ecological damage caused by this product.

13. Disposal considerations

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General :

Do not discharge into areas where there is a risk of forming an explosive mixture with air. Waste gas should be passed through a suitable burner with flash back arrestor. 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 : Flammable gas
H.I. nr :	239
Proper shipping name :	ACETYLENE, DISSOLVED
HAZCHEM - Emergency Action Code :	2SE
ADG Class	2
ADG Classification cod	4 F
Other transport information :	<p>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.</p> <p>Before transporting product containers :</p> <ul style="list-style-type: none">- 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.- 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 :

- 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 fire 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.

2 = Fine water spray.

S =

Risk of violent reaction or explosion. Recommended personal protective equipment : Full fire kit and breathing apparatus. Appropriate measures : dilute

15. Regulatory information

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EC Classification :

Annex No : 601-015-00-0

F+; R12

R5

R6

EC Labelling

Symbol(s) : F+ :

Extremely flammable

R Phrase(s) : R5 :	Heating may cause an explosion.
R12 :	Extremely flammable
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

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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.

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