

Section 1: Product and company Information

1.1 Product Identifier

Trade Name : Acetylene (Dissolved)

Formula : C2H2
MSDS No : GCI-003

1.2 Details of the supplier of the safety data sheet

Name : Globcorp International Co W.L.L

Address : Shop No 52, Building 2527, Road 1535, Block

115, Hidd, Kingdom of Bahrain

Emergency number : +973-34026802/33701856/36487106

1.3 Product Composition / Information of ingredients

Substance name : Acetylene, dissolved

Contents : 100%

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

product

Section 2: Hazard Identification

Hazards identification : Dissolved gas.

May cause asphyxiation in high concentrations.

Section 3: First Aid Measures

After Inhalation Remove person to fresh air and keep comfortable

for breathing. If not breathing, give artificial respiration. If breathing is difficult, trained personnel should give oxygen. Call a doctor.

After Skin contact The liquid may cause frostbite. For exposure to

liquid, immediately warm frostbite area with warm water not to exceed 41°C. Maintain skin warming for at least 15 minutes or until normal coloring and sensation have returned to the affected area. In case of massive exposure, remove clothing while showering with warm

water.



After Eye contact Immediately flush eyes thoroughly with water for

> at least 15 minutes. Hold the eyelids open and away from the eyeballs to ensure that all surfaces

are flushed thoroughly. Contact an

ophthalmologist immediately. Get immediate

medical attention.

After Ingestion Ingestion is not considered a potential route of

exposure

Section 4: Firefighting Measures

Flammable class Extremely flammable.

Specific hazards Exposure to fire may cause containers to

rupture/explode.

Suitable extinguishing media All known extinguishers can be used. Specific methods

If possible, stop flow of product.

Move away from the container and cool with

water from a protected position.

Do not extinguish a leaking gas flame unless absolutely necessary. Spontaneous/explosive reignition may occur. Extinguish any other fires.

In confined space use self-contained breathing

apparatus.

Special protective equipment

Section 5: 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 back feed into the container.

Use only proper specified equipment which is

suitable for this product.

Keep away from ignition sources.

Refer to supplier's container handling

instructions. Contact your gas supplier if in doubt.

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Section 6: Exposure controls / Personal protection

Personal protection Do not smoke while handling product.

Wear suitable hand, body and head protection. Wear goggles with suitable filter lenses when use

is cutting/welding.

Ensure adequate ventilation.

Section 7: Physical and Chemical properties

Physical state at 20°C : Dissolved gas.

Color : Colorless.

Odor : Garlic like odor. Poor warning properties at low

concentrations.

Molecular formula : C2H2

Molecular weight : 26

Melting point [°C] : -80.8

Boiling point [°C] : -84

Critical temperature [°C] : 35

Vapor 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% m air] : 2.4 to 83

Auto ignition temperature [°C] : 325

Section 8: 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.



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Do not use alloys containing more than 70% copper.

Dissolved in a solvent supported in a porous

mass

May react violently with oxidants.

Section 9: Toxicological Information

Toxicity Information

: No known toxicological effects from this product.

Section 10: Disposal Considerations

General

: 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.

Do not discharge into any place where its accumulation could be dangerous.

Section 11: Transport information

Transport document description UN-NO (DOT)
Proper shipping name
Hazard labels (DOT)

: UN1001 Acetylene, dissolved, 2.1

: UN1001

: Acetylene, dissolved : 2.1 – Flammable gas



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 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 us correctly fitted. Ensure valve protection device is correctly fitted. Ensure there is adequate ventilation.
Compliance with applicable regulation.

Section 12: Other Information

Ensure operators understand the flammability hazard.

Keep container in a well ventilated place.

Do no breathe the gas.

Ensure all national/local regulations are observed.

The hazard of asphyxiation is often overlooked and must be stressed during operator training.

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.