

1.1 Product name : Acetylene (dissolved)

1.2 Chemische formule : CH₂H₂.

1.3 Company identification :

GASCO DEUTSCHLAND GMBH
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1.4 Emergency phone number: :+49 2837 665 415

2.1 Substance/preparation substance

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

2.3 Cas Nr 00074-86-2

2.4 EEC Nr 200-816-9

Dissolved gas
Extremely flammable

4.1 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

4.2 Ingestion:

- Ingestion is not considered a potential route of exposure.

5.1 Specific hazards:

- Exposure to fire may cause containers to rupture/explode

5.2 Hazardous combustion products:

- Incomplete combusting may form carbon monoxide

5.3 Suitable extinguishing media:

- All known extinguishants can be used.

5.4 Specific methods:

- If possible, stop flow of product.
- Move away from the container and cool with water from a protected position.
- Continue water spray from a 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.

5.5 Special protective equipment for fire fighters:

- In confined space use self-contained breathing apparatus

6.1 Personal precaution:

- Evacuate area
- Wear self contained breathing apparatus when entering area unless atmosphere is proved to be safe.
- Ensure adequate air ventilation.

6.2 Environmental precautions:

- Try to stop release.

6.3 Clean up methods:

- Ventilate area.

7.1 Handling and storage:

- 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 properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas if in doubt.
- Keep away from ignition sources (including static discharges).
- Segregate from oxidant gases and other oxidant in store
- Refer to supplier's container handling instructions.
- Keep container below 50°C in a well ventilated place.

8.1 Personal protection:

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

9.1 Molecular weight	:	26
9.2 Melting point	:	-80.8°C
9.3 Boiling point	:	-84(s)°C
9.4 Critical temperature	:	35°C

9.5 Relative density, gas : 0.9
9.6 Relative density, liquid : Not applicable
9.7 Vapor pressure 20°C : 44 bar
9.8 Solubility mg/l water : 1185 mg/l
9.9 Appearance /color : Colorless gas
9.10 Odor : Garlic like Poor warning properties at low concentration
9.11 Autoignition temperature: 325°C
9.12 Flammability range :2.4-83 vol% In air

10.1 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.

11.1 General:

- No known toxicological effects from this product.

12.1 General:

- No ecological damage caused by this product.

13.1 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.
- Contact supplier if guidance is required.

14.1 Proper shipping name:

UN 1001, Nitrogen compressed, 2.1

14.2 ADR/RID Classification code :

2.4° F

14.3 ADR/RID Hazard Nr :

230

14.5 Labeling ADR:

Label 3: flammable gas

14.6 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 ensure that they are firmly secured and:
 - Cylinder valve is closed and not leaking.

- Valve outlet cap nut or plug (where provided) is correctly fitted.
- Valve protection device (where provided) is correctly fitted.
- There is adequate ventilation.

- Compliance with applicable regulations.

15.1 Number in Annex I of Dir 67/548:

601-015-00-0

15.2 EC Classification:

R5/R6/F+;R12.

Symbols:

F+: Extremely flammable

Risk phrases:

R5 Heating may cause an explosion

R6 Explosive with or without contact with air.

R12 Extremely flammable

Safety phrases:

S9 Keep container in well ventilated place.

S16 Keep away from ignition sources- No smoking

S 33 Take precautionary measures against static discharge.

Ensure operators understand the flammability hazard

Ensure all national/local regulations are observed

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

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.

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