

2 0129-4609487, +91 9818370227

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Material Safety Data Sheet Acetylene, Dissolved

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

Product name: Acetylene Dissolved

Chemical formula: C2H2 Om Air Special Gases

Khasra No.96, Khewat No.352/640, Kila No.4, Past 77/580, Moja Gaunchi Faridabad Haryana

2. HAZARDS IDENTIFICATION

Classification: Heating may cause an explosion. Explosive with or without contact with air. Extremely flammable.

Risk advice to man and the environment: Dissolved gas

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Preparation: Substance.

Components/Impurities

CAS Nr: 74-86-2

EEC Nr (from EINECS): 200-816-9

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

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 artificial respiration if breathing stopped.

Ingestion:

Ingestion is not considered a potential route of exposure

5. FIRE FIGHTING MEASURES

Specific hazards: Exposure to fire may cause containers to rupture/explode.

Hazardous combustion products : Incomplete combustion may form carbon monoxide.

Suitable extinguishing media: All known extinguishants can be used.

Specific methods: If possible, stop flow of product. Do not extinguish a leaking gas flame unless absolutely necessary.

Spontaneous/explosive re- ignition may occur.

Special protective equipment for fire fighters: In confined space use self-contained breathing apparatus.

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

Handling

Ensure equipment is adequately earthed. Suck back of water into the container must be prevented. Purge air from system before introducing gas. 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 handling instructions.

Storage

Secure cylinders to prevent them falling. Keep container below 50°C in a well ventilated place.

Segregate from oxidant gases and other oxidants in store. Observe "Technische Regeln Druckgase (TRG) 280 Ziffer 5".



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

9. PHYSICAL AND CHEMICAL

PROPERTIES General information

Appearance/Colour:

Colourless gas.

Odour: Garlic like Poor warning properties at low

concentrations. Important information on

environment, health and safety
Molecular weight: 26.038
g/mol Melting point: -80,8 °C
Sublimation point: -84 °C
Critical temperature: 35,2 °C
Autoignition temperature: 325 °C
Flammability range: 2.5 %(V) - 81 %(V)

Relative density, gas: 0,9 Relative density, liquid: Not applicable. Solubility mg/l water: 1185 mg/l Maximum filling pressure

(bar): 19bar

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. May react violently with oxidants.

11. TOXICOLOGICAL INFORMATION

General: No known toxicological effects from this product.

12. ECOLOGICAL INFORMATION

General: 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 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. REGULATORY INFOR

MATION Number in Annex I

of Dir 67/548 601-015 -00-0

EC Classification

F+; R12, R5, R6

Labelling - Symbols

F+ Extrmely flammable.

- Risk Phráses

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 source - No smoking.

S33:- Take precautionary measures against static

discharges. S7:- Keep container tightly closed.

Further national regulations :-

Pressure Vessel Regulation

Regulations for the prevention of industrial

accidents Gefahrstoffverordnung (GefStoffV)

Technische Regeln für efahrstoffe (TRGS)



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Water Pollution class

Not polluting to waters according to VwV wS from 17.05.9 9. ${\bf TA-Luft}$

Not classified according to TA-Luft.

15. OTHER INFORMATION

Ensure all national/local regulations are observed. Ensure operators understand the flammability hazard. The hazard of asphyxiation is often overlooked and must be stressed during operator training. Before using this product in an y new process o r experiment, a thorough material compatibility and safety study should be carried out.

Advice

To prepare this document, help of various source of information available over electronic media has been taken for the sake of safety of the mankind and the environment. Whilst proper care has been taken during preparation of this document, no legal liability of any kind is accepted for any Injury or Damage resulting from the use of the product or information. We do not claim any type of ownership/correctness of this document or the information contained in it.

