

THE GAS MAN

**Co2 & Mixed Gas to the Licensed trade
Welding Gas, Propane/Butane & Helium**

Helium Gas Safety Data Sheet

1. Identification of the Substance / Preparation / Company Information.

Product Name Helium Chemical formula He

Company The Gas Man (S-O-T) Ltd

Emergency phone number 07940 080609

2. Composition/Information on Ingredients

Substance /Preparation Substance

Components/Impurities Contains Helium and air

CAS Nr 7440-59-7 EEC Nr (from EINECS) 231-168-5

3. Hazards Identification

Hazard identification. Compressed Gas. In high concentrations may cause asphyxiation. Never deliberately

inhale helium gas. Breathing 100% helium gas will produce unconsciousness and death due to lack of oxygen.

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. Remove victim to uncontaminated area wearing self-contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stops.

Ingestion Ingestion is not considered a potential route of exposure.

5. Fire Fighting Measures

Specific hazards Exposure to fire may cause cylinders to rupture/explode. Non-flammable.

Hazardous combustible products None.

Suitable extinguisher media All known extinguishers can be used.

Specific methods If possible, stop flow of product if safe to do so. Move cylinder away or cool with water from a protected position.

Special protective equipment In a confined space use self-contained breathing apparatus.

for fire fighters

6. Accidental Release Measures

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

Environmental precautions Try to stop release.

Clean up methods Ventilate area.

7. Handling and Storage

Handling and storage Cylinders should be secured when stored or in use. Only use cylinders when in an upright position. Keep cylinders below 50 degrees centigrade. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Only open the cylinder valve when connected to equipment. Open and close valve slowly. Close cylinder valve when not in use.

8. Exposure Controls/Personal Protection

Personal protection Ensure adequate ventilation.

9. Physical and Chemical Properties

Molecular weight 4 Melting Point Not applicable

Boiling Point -269 degrees centigrade Critical Temperature -268 degrees centigrade

Relative density, gas 0.14 (air=1) Relative density, liquid Not Applicable

Vapour Pressure 20 degrees cent. Not Applicable Solubility mg/ 1 water 1.5 mg/1 water

Appearance / Colour Colourless gas. Odour No odour warning properties.

10. Stability and Reactivity

Stability and reactivity Stable under normal conditions.

11. Toxicology 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 Discharge to atmosphere in a well ventilated place. Do not discharge into a place where gas may accumulate.

14. Transport Information

UN Nr 1046

Class/Div 2.2

ADR/RID Classification Code 1A

ADR/RID Hazard Nr 20

Labelling ADR Label 2.2: non-flammable, non toxic gas.

Other transport information Avoid transporting on vehicles where the load space is not separate 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 emergency.

Before transporting cylinders ensure that they are firmly secured: cylinder valve is closed and not leaking, valve guard is correctly fitted, there is adequate ventilation, compliance with applicable regulations.

15. Regulatory Information

Number in Annex 1 of Dir 67/548 Not included in Annex 1.

EC Classification Not classified as a dangerous substance.

Labelling of cylinders-Symbols Label 2.2: non flammable, non-toxic gas.

16. Other Information

Ensure all national/local regulations are observed.