

# HELIUM

0603  
May 2003

CAS No: 7440-59-7  
RTECS No: MH6520000  
UN No: 1963

He  
Atomic mass: 4.003

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
<b>FIRE</b>	Not combustible. Heating will cause rise in pressure with risk of bursting.		In case of fire in the surroundings: use appropriate extinguishing media.
<b>EXPLOSION</b>			In case of fire: keep cylinder cool by spraying with water.

EXPOSURE			
<b>Inhalation</b>	High voice. Dizziness. Dullness. Headache. Suffocation.	Ventilation.	Fresh air, rest. Artificial respiration may be needed. Refer for medical attention.
<b>Skin</b>	ON CONTACT WITH LIQUID: FROSTBITE.	Cold-insulating gloves. Protective clothing.	ON FROSTBITE: rinse with plenty of water, do NOT remove clothes. Refer for medical attention.
<b>Eyes</b>	ON CONTACT WITH LIQUID: FROSTBITE.	Safety goggles or face shield.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>Ingestion</b>			

SPILLAGE DISPOSAL	PACKAGING & LABELLING
Ventilation. NEVER direct water jet on liquid. (Extra personal protection: self-contained breathing apparatus.)	UN Hazard Class: 2.2

EMERGENCY RESPONSE	STORAGE
Transport Emergency Card: TEC (R)-20S1963	Fireproof if in building. Keep in a well-ventilated room.

## IMPORTANT DATA

**Physical State; Appearance**

COLOURLESS, ODOURLESS, REFRIGERATED, LIQUEFIED GAS.

**Physical dangers**

The gas is lighter than air.

**Occupational exposure limits**

TLV: Simple asphyxiant; (ACGIH 2003).  
MAK not established.

**Routes of exposure**

The substance can be absorbed into the body by inhalation.

**Inhalation risk**

On loss of containment this gas can cause suffocation by lowering the oxygen content of the air in confined areas.

**Effects of short-term exposure**

The liquid may cause frostbite. Suffocation.

## PHYSICAL PROPERTIES

Boiling point: -268.9°C  
Melting point: -272.2°C

Solubility in water, ml/100 ml at 20°C: 0.86  
Relative vapour density (air = 1): 0.14

## ENVIRONMENTAL DATA

## NOTES

UN number 1046 is for helium, compressed.  
High concentrations in the air cause a deficiency of oxygen with the risk of unconsciousness or death.  
Check oxygen content before entering area.

## ADDITIONAL INFORMATION

## LEGAL NOTICE

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