

# Broadman limited

## Weldgas: Helium

<b>Product Name:</b>	<b>Helium Compressed</b>
<b>Chemical Formula:</b>	<b>He</b>
<b>Company identification:</b>	<b>Broadman Ltd, Wiltshire Road, Hull. HU4 6PA</b>
<b>Emergency phone No:</b>	<b>01482 506 050</b>

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<b>Substance/Preparation:</b>	Substance
<b>Components/impurities:</b>	Helium Compressed, contains no other components or impurities which will influence the classification of this product.
<b>EC No</b>	(from EINECS) 231-168-5
<b>CAS No</b>	7440-59-7
<b>Chemical formula</b>	He
<b>REACH registration No</b>	listed in ANNEX IV/V of regulation (EC) No 1907/2006 (REACH) exempt from registration.

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<b>Hazards identification:</b>	Compressed gas. In high concentrations may cause asphyxiation
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**Skin / Eye contact:** Immediately flush eyes thoroughly with water for at least 15 minutes. In case of cold burn spray with water for at least 15 minutes. Apply a sterile dressing. Obtain medical assistance.

**Inhalation:** Low concentrations of CO<sup>2</sup> cause increased respiration and headache. In high concentrations may cause asphyxiation. Symptoms may include loss of consciousness and mobility. Victim may not be aware of asphyxiation. Relocate victim to an uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call for emergency medical assistance. If breathing stops apply artificial respiration

**Ingestion:** Ingestion is not considered a route of exposure.

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**Specific Hazards:** Exposure to fire may cause cylinders to rupture or explode. Non-flammable gas.

**Hazardous combustion:** None.

**Suitable extinguishing media:** All known extinguishers can be used.

**Specific methods:** If possible, stop flow of product. Move cylinder away or cool with water from a protected position.

**Special protective equipment**

**For firefighters:** In a confined space use self-contained breathing apparatus.

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

**Small release:** For a leaking cylinder, try to stop release by closing the cylinder valve if safe to do so.

**Major release:** Evacuate the area immediately. Frost will appear on the surface of the cylinder. The cylinder should be left to completely discharge and Broadman Ltd should be contacted.

**Environmental precautions:** Where possible prevent from entering low lying areas where its accumulation can be dangerous.

**Clean up method:** Ventilate area.

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**Handling and storage:** Cylinders should be secured when stored or in use. Only use cylinders when in the upright position. Water ingress into the cylinder must be prevented. Do not allow back feed into a cylinder. Cylinders which have been exposed to flooding in cellars, must not be used, and Broadman Ltd contacted for collection. Do not store cylinders next to a direct heat source. Keep cylinders below an ambient temperature of 50°C. Failure to do so may cause pressure build up in the cylinder and the bursting disc to operate. Store in a well ventilated area, if this is not possible conduct a confined space risk assessment. Use only

properly specified equipment which is suitable for the product, its supply pressure and temperature. Only open the cylinder valve when it is connected to the equipment. Open and close the valve slowly. Close the cylinder valve when not in use.

**Personal Protection:** Ensure adequate ventilation to keep below exposure limits. Wear eye protection to EN166 when using gas. Wear leather safety gloves and safety shoes when handling cylinders.

<b>Relative density GAS:</b>	0.14 Lighter than air
<b>Solubility mg/l :</b>	1.5 mg/l
<b>Appearance / Colour :</b>	Colourless Gas
<b>Odour:</b>	No odour warning properties
<b>Melting point:</b>	-272°C
<b>Boiling point:</b>	-269°C
<b>Flash point:</b>	Not applicable
<b>Flammability range:</b>	Not flammable
<b>Molecular weight:</b>	4 g/mol
<b>Critical temperature</b>	-268°C
<b>Relative density liquid:</b>	0.12

**Stability and reactivity:** Stable under normal conditions.

**Toxicological information:** No known toxicological effects

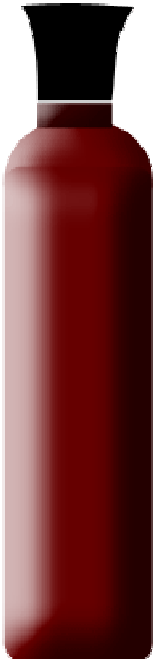
**Ecological Factor:**

No known ecological effects

**UN No:** 1046**Class/Div:** 2.2**ADR/RID classification code:** 1A**ADR/RID Hazard No:** 20**Labelling ADR:** Label 2.2: non-flammable, non-toxic gas**Transport information:** Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure the 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 ensure that cylinders are securely wedged.**Regulatory information:****Number in Annex 1 of Dir 67/548:** Not classified as hazardous to health**EC classification;** Not classified as dangerous to health**Symbols:** Label 2.2: non-flammable non-toxic

**Pure Helium**

**Cylinder and valve.**



Type	Cyl	Max Fill Pressure (bar)	Approx weight of Cyl Kg	Approx Gas volume (Ltrs)
Helium 137	5L	137	9	690
Helium 137	10L Tall	137	16.5	1370
	10L Shrt	137	21.0	1370
Helium 200	10L Tall	200	16.5	2000
	10L Shrt	200	21.0	2000

The nominal volume of gas is measured at an ambient temperature of 15°C and a pressure of 1013mb. Actual contents, volume and weights can vary around the figures stated above.

**General Information**

The hazard of asphyxiation is often not stressed enough when handling cylinders, especially in confined spaces. Keep containers in well ventilated area. Contact with the liquid may cause burns or frost bite. For beverage dispense only. Details given above are believed to be correct at the time of publishing. Whilst every reasonable care has been taken in preparing this data sheet, no liability for injury or damage resulting from its use or interpretation can be accepted.

