

HELIUM (Compressed)

SAFETY DATA SHEET

(SDS Number – PGC H042017)

Effective Date: July 2022

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 <u>Product Identifier</u> **PRODUCT NAME:** Helium, Compressed

SYNONYMS: Balloon Gas, Helium Compressed

1.2 <u>Uses and uses advised against</u>
Uses: Balloon Gas, Laser Applications, Welding Applications
1.3 <u>Details of the supplier of the product</u>

Pacific Gas Pty Limited, 22-26 Cumberland Drive Seaford, VIC, 3198 Contact Telephone: (61) 408 350 180 Email: info@pacgas.com.au

1.4 <u>Emergency telephone number(s)</u> Contact Telephone: (61) 408 350 180

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

GHS classification(s) Gases Under Pressure: Compressed gas

2.2 Label elements Signal word: WARNING



Hazard statement(s) H280: Contains gas under pressure; may explode if heated

Prevention statement(s) Non allocated

Response statement(s) Non allocated

<u>Storage Statement(s)</u> P410 and P403: Protect from sunlight. Store in a well-ventilated place

Disposal Statement(s) None allocated

<u>2.3 Other hazards</u> Asphyxiant, this product may displace oxygen and cause suffocation.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances / Mixtures

Ingredient	CAS No	EC	Percentage
		Number	
Helium	7440-59-7	231-168-5	99.0%

4. FIRST AID MEASURES

4.1 Description of First Aid Measures

EYE CONTACT: None.

INHALED: Remove from exposure. If not breathing apply artificial respiration if possible using an automated oxygen resuscitator. Seek medical attention. For advice call the Poisons Information Centre on 13 11 26 or alternatively call a Doctor.
SKIN ABSORPTION: None required.
INGESTION: Considered unlikely.
FIRST AIDE FACILITIES: No information provided.

<u>4.2 Most important symptoms and effects, both</u> <u>acute and delayed</u>

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.

<u>4.3 Immediate medical attention and special</u> <u>treatment needed</u> Treat for asphyxia

5. FIRE FIGHTING MEASURES

5.1 Extinguishing Media: Use water spray or fog to cool cylinders or containers in the adjacent area. 5.2 SPECIAL HAZARDS ARISING FROM SUBSTANCE OR MIXTURE: Non flammable.

5.3 Advice for firefighters

If possible, remove cool cylinders from the path of the fire. Evacuate the area if unable to move cylinders and they are exposed to the fire. Cylinders exposed to fire should not be moved until they have cooled.

5.4 Hazchem Code

2T

2	Fine Water Spray
Т	Wear full fire kit and breathing apparatus.
	Dilute spill and run off.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

If cylinder is leaking and you are unable to stop the leak, evacuate personnel from the area. Contact your gas supplier for expert advice. Use of PPE as detailed in Section 8.

6.2 Environmental precautions

Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

6.3 Methods of cleaning up

Carefully move material to a well ventilated remote area, then allow gas to escape to atmosphere. Do not attempt to repair leaking valve or cylinder safety devices.

7. HANDLING AND STORAGE

7.1 Precautions for Safe Handling

Use of safe work practices to avoid inhalation. Protect cylinders from physical damage; do not drag, roll, slide, or drop. Use a suitable hand truck for cylinder movement. Only use gas regulators / equipment suitable for the cylinder gas type and working pressure. Close the cylinder valve after each use.

7.2 Conditions for safe storage, including any incompatibilities

Store and use with adequate ventilation in a secure area; below 45°C, in an area constructed of non-

combustible material with firm level floor. Cylinders should be stored upright with valve protection cap in place and firmly secured to prevent falling or being knocked over. There should be no sources of ignition in the area.

7.3 Specific end use(s) No information provided

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredient	Reference	TWA		STEL	
		ppm	mg/m ₃	ppm	mg/m³
Argon	SWA (AUS)	Asphyxiant			

Biological limits

No biological limit values have been entered for this product

8.2 Exposure controls

Provide adequate natural or explosion-proof mechanical ventilation to minimize or eliminate exposure. Confined areas (e.g. tanks) should be adequately ventilated or gas tested.

PPE

Eye / Face	safety glasses	
Hands Wear	Chemical resistant impervious	
	gloves	
Body Wear	appropriate safety boots	
Respiratory	If in a confined area, use an air	
	purifying or air fed respirator	
	complying with an approved	
	standard	



9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

ODOUR Odour	Odourless
Flammability	Non Flammable
Flash point	Not relevant
Boiling point	-268.9°C
Melting point	-272.2°C @ 26atm
Evaporation rate	Not Applicable
рН	Not Applicable
Vapour density	Not Available
Specific gravity	Not Applicable
Solubility (water)	Not Available
Vapour pressure	Not Available
Upper explosion limit	Not relevant
Lower explosion limit	Not relevant
Partition coefficient	Not Available
Autoignition temperature	Not Available
Decomposition	Not Available
temperature	
Viscosity	Not Available
Explosive properties	Not Available
Oxidising properties	Not Available
Odour threshold	Not Available

9.2 Other information

% Volatiles	100%
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10. STABILITY AND REACTIVITY

10.1 Reactivity

No specific test data related to reactivity for this product is available. It is important to carefully review all information provided below.

10.2 Chemical stability

Stable under recommended conditions of storage. 10.3 Possibility of hazardous reactions

Hazardous reactions will not occur under normal conditions of storage.

10.4 Conditions to avoid

Avoid shock, friction, heavy impact and heat sources. 10.5 Incompatible materials

Compatible with most commonly used materials.

10.6 Hazardous decomposition products

This material will not decompose to form a hazardous product other than that already present.

Appearance

Colourless gas

11. TOXICOLOGICAL INFORMATION

Acute toxicity	Based on available data, the
	classification criteria are not met
Skin	Not irritating to the skin
Eye	Not irritating to the eye
Sensitisation	Not classified as causing skin or
	respiratory sensitisation
Mutagenicity	No significant ingredient is
	classified as a mutagen
Carcinogenicity	No significant ingredient is
	classified as a as a carcinogen
Reproductive	No significant ingredient is
	classified as a a reproductive
	toxin
STOT – single	Asphyxiant. Effects are
exposure	proportional to oxygen
	displacement. Over exposure
	may result in dizziness,
	drowsiness, weakness, fatigue,
	breathing difficulties and
	unconsciousness.
STOT –	Not classified as causing organ
repeated	damage from repeated exposure
exposure	
Aspiration	Not classified as causing
	aspiration

12. ECOLOGICAL INFORMATION

12.1 ToxicityNot available.12.2 Persistence and degradabilityNot available12.3 Bioaccumulative potentialNot available12.4 Mobility in soilNo information provided.12.5 Other adverse effectsProduct is not harmful to the environment

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste disposal: Do not attempt to dispose of residual or unused quantities. Return cylinder to supplier. Unserviceable cylinders should be

returned to the supplier for safe and proper disposal. **Legislation:** Dispose of in accordance with relevant local legislation

14. TRANSPORT INFORMATION

CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE



	LAND	SEA	AIR
	TRANSPORT	TRANSPORT	TRANSPORT
	(ADG)	(IMDG /	(IATA /
		IMO)	ICAO)
UN Number	1046	1046	1046
Proper	Helium,	Helium,	Helium,
Shipping	Compressed	Compressed	Compressed
Name			
Transport	2.2	2.2	2.2
Hazard			
Class			
Packing	None	None	None
Group	allocated	allocated	allocated

<u>14.5 Environmental hazards</u>No information provided.<u>14.6 Special precautions for user</u>

Hazchem code: 2T GTEPG: 2C1 EMS: F-C, S-V

Other information: Cylinders should be transported in a secure position, in a well ventilated vehicle. The transportation of compressed gas cylinders in automobiles or in closed-body vehicles can present serious safety hazards and should be discouraged.

15. REGULATORY INFORMATION

15.1 Safety, health and environmental

regulations/legislation specific for the substance or mixture

noison schedule number has not		
A poison schedule number has not		
been allocated to this product using the		
criteria in the Standard for the Uniform		
Scheduling of Medicines and Poisons		
(SUSMP).		
Safework Australia criteria is based on		
e Globally Harmonised System (GHS)		
f Classification and Labelling of		
Chemicals.		
The classifications and phrases listed		
below are based on the Approved		
Criteria for Classifying Hazardous		
Substances [NOHSC: 1008(2004)].		
Non Allocated		
Non Allocated		
Non Allocated		
AUSTRALIA: AICS (Australian Inventory		
of Chemical Substances) All		
components are listed on AICS, or are		
exempt		

16. OTHER INFORMATION

Other	Application method: Never open an argon
Information	cylinder valve without the regulator
	attached. Use only a gas regulator of
	suitable pressure and flow rating fitted to
	cylinder.
	PERSONAL PROTECTIVE EQUIPMENT
	GUIDELINES: The recommendation for
	protective equipment contained within this
	report is provided as a guide only. Factors
	such as form of product, method of
	application, working environment, quantity
	used, product concentration and the
	availability of engineering controls should
	be considered before final selection of
	personal protective equipment is made.
	HEALTH EFFECTS FROM EXPOSURE: It
	should be noted that the effects from
	exposure to this product will depend on
	several factors including: form of product;
	frequency and duration of use; quantity
	used; effectiveness of control measures;
	protective equipment used and method of
	application. Given that it is impractical to
	prepare a report which would encompass
	all possible scenarios, it is anticipated that
	users will assess the risks and apply control
	methods where appropriate.
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INFORMATION PREPARED BY:

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