

Argon He25

100% AUSTRALIAN

Section 1: IDENTIFICATION of the MATERIAL and SUPPLIER

GHS Product Identifier Argon, Helium Mixed
Product Name: Argon, Helium, compressed
Chemical Name: Argon 75%, Helium 25%

Synonym(s): SPEED SHIELD He25; ARGON SPEED SHIELD He25, ARGON MIX He25

Uses: Shielding Gas for Welding; Industrial Applications, as an Inert Atmosphere and

Inert Gas blanketing.

Supplier Name: Speed Gas Pty Ltd

Address: 49 Chard Road, Brookvale, NSW 2100 Telephone: 1300 GAS NOW, 02 9907 7999

Fax: 02 9907 7666

Emergency: 24hr EMERGENCY TELEPHONE (Australia Only) 1300 994 556

Emergency: DIAL 000

Website: <u>www.speedgas.com.au</u>

Section 2: HAZARD(S) IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA CLASSIFIED AS DANGEROUS GOODS BY THE CRITERIA OF THE ADG CODE

GHS Classification: Gases Under Pressure: Compressed Gas

Label Elements:

Signal Word: WARNING

Pictogram(s):



Hazard Statements: H280 – Contains gas under pressure; May explode if heated.

Prevention Statements: None allocated Response Statements: None allocated

Storage Statements: P410 + P403 Protect from sunlight. Store in a well-ventilated place.

Disposal Statements: None allocated

Other Hazards: Asphyxiant. In addition to any other important health or physical hazards, this

product may displace oxygen and cause rapid suffocation.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Substances / Mixtures

Ingredient	CAS Number	EC Number	Content
ARGON	7440-37-1	231-147-0	75%
Helium	7440-59-7	231-168-5	25%

 $There \ are \ no \ additional \ ingredients \ present \ which, \ within \ the \ current \ knowledge \ of \ the \ supplier \ and \ in \ the$

concentrations applicable, are classified as hazardous to health or the environment

and hence require reporting in this section.

Section 4: FIRST AID MEASURES

Description of First Aid Measures

Eyes: Not applicable.

Inhaled: Remove from exposure, but avoid becoming a casualty. Apply artificial respiration

if not breathing, preferably using an automated oxygen resuscitator. Rest and keep warm. Obtain medical attention. For advice contact Poisons Information Centre **Ph:**

13 11 26 or a doctor.

Skin: Not applicable.

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

First Aid Facilities No information provided

Most important symptoms and effects, both acute and delayed.

In high concentrations may cause asphyxiation. Symptoms may include loss of

mobility / consciousness. Victim may not be aware of asphyxiation.

Immediate medical attention and special treatment needed.

Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

Extinguishing Media: Use water fog to cool containers from protected area.

Special hazards arising from the substance or mixture: Non Flammable.

Advice for Firefighters: Temperatures in a fire may cause cylinders to rupture. Cool cylinders or containers

exposed to fire by applying water from a protected location. Remove cool cylinders from the path of the fire. Evacuate the area if unable to keep cylinders cool. Do not

approach cylinders or containers suspected of being hot.

Hazchem Code: 2TE

2 – Fine Water Spray

T – Wear full fire kit and breathing apparatus. Dilute spill and run off.

E - Evacuation of people in and around the immediate vicinity of the incident

should be considered.

Section 6: ACCIDENTAL RELEASE MEASURES



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Personal precautions, protective equipment and emergency procedures.

Non-emergency personnel:

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Avoid breathing gas. Provide adequate ventilation.

If the cylinder is leaking, evacuate area of personnel. Inform manufacturer/supplier of leak. Use Personal Protective Equipment (PPE) as detailed in Section 8 of the SDS.

Environmental Precautions:

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

Methods of cleaning up:

Carefully move to a well ventilated area. Allow gas to escape to atmosphere, preferably in an open remote location. Do not attempt to repair leaking valve or cylinder safety devices.

Reference to other sections:

See Section 8 for Exposure Controls and Section 13 for disposal considerations

Section 7: HANDLING AND STORAGE

Precautions for Safe Handling.

Use safe work practices to avoid inhalation. Use appropriate personal protective equipment (see Section 8). Protect cylinders from physical damage; do not drag, roll, slide, or drop. Use a suitable hand truck for cylinder movement. Contains gas under pressure. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Use equipment rated for cylinder pressure. Close valve after each use and when empty. The uncontrolled release of a gas under pressure may cause physical harm.

Conditions for safe storage, including any incompatibilities.

Store cylinders below 45°C upright in a secure enclosure, preferably outside of buildings, protected from direct sunlight. Cylinders should also be stored in a dry, well ventilated area constructed of non-combustible material with firm level floor (preferably concrete). Secure cylinders by chains or similar device to prevent falling over. Keep away from flammable or combustible materials. Keep away from vehicular traffic and other thoroughfares.

Specific end use(s): No information provided.



8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters.

Exposure Standards

Ingredient	Reference	TWA		TWA STEL	
		ppm	mg/m ³	ppm	mg/m³
Argon	SWA (Aus)	Simple Asphyxiant			
Helium	SWA (Aus)	Simple Asphyxiant			

Biological limits: No biological limit values have been entered for this product.

Exposure Controls.

Engineering Controls Provide suitable ventilation to minimise or eliminate exposure. Confined areas (e.g.

tanks) should be adequately ventilated or gas tested.

PPE

Eye/Face Wear Safety Glasses

Hands Chemical-resistant, impervious gloves complying with an approved standard

should be worn.

Body Appropriate footwear should be selected based on the task being performed and

the risks involved and should be approved by a specialist before handling this

product.

Respiratory Use a properly fitted, air-purifying or air-fed respirator complying with an

approved standard if a risk assessment indicates this is necessary.







Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties.

Appearance: Colourless gas Odour: Odourless Not Flammable. Flammability: Flash Point: Not Relevant **Boiling Point:** Not available Melting Point: Not available **Evaporation Rate:** Not applicable pH: Not applicable. Specific gravity: Not applicable. Not available Solubility in Water Not available Vapour Pressure: Not Relevant Upper explosion limit: Lower explosion limit: Not Relevant **Partition Coefficient:** Not available



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Auto-Ignition Temperature: Not available
Decomposition Temperature: Not available
Viscosity Not available
Explosive Properties Not available
Oxidising Properties Not available
Odour Threshold Not available

Other Information

Cylinder Pressure (when full): 13000 kPa to 25000 kPa @ 15°C

Vapour Density: 1.3 (Air=1)
Volatiles: 100%

Section 10: STABILITY AND REACTIVITY

Reactivity.

No specific test data related to reactivity available for this product or its ingredients. Carefully review all information provided in sections below.

Chemical Stability.

Stable under recommended conditions of storage.

Possibility of Hazardous Reactions.

Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to Avoid.

Avoid shock, friction, heavy impact and heat.

Incompatible Materials.

Compatible with most commonly used materials. Hazardous by-products may be produced when this gas/gas mixture is used in welding, cutting and associated processes.

Hazardous Decomposition Products.

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

Section 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects.

Acute Toxicity: Swallowed: No liquid phase.

Skin: Not irritating to the skin.

Eyes: 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 carcinogen.

Reproductive: No significant ingredient is classified as a reproductive toxin.

STOT Single Exposure: Asphyxiant. Effects are proportional to oxygen displacement. Over exposure may

result in dizziness, drowsiness, weakness, fatigue, breathing difficulties and

unconsciousness.

STOT Repeated Exposure: Not classified as causing organ damage from repeated exposure.



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Section 12: ECOLOGICAL INFORMATION

This product is not biodegradable. However, it is biologically inert so will not be harmful to flora or fauna, soil or

water and will not cause long term problems. Not expected to be an

environmental hazard.

Toxicity. Not available. Persistence and Degradability. Not available. Bioaccumulative Potential. Not available.

Mobility in Soil No information provided

Other Adverse Effects Product is not harmful to the environment. Fumes from fabrication processes

which use this gas/gas mixture may be harmful to the environment.

Section 13: DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Waste disposal Cylinders should be returned to the manufacturer or supplier for disposal of

contents.

Legislation Disposal of this product, solutions and any by-products should at all times comply

with the requirements of environmental protection and waste disposal legislation

and any regional local authority requirements.

Section 14: TRANSPORT INFORMATION

CLASSIFIED AS DANGEROUS GOODS BY THE CRITERIA OF THE ADG CODE



	LAND TRANSPORT	SEA TRANSPORT	AIR TRANSPORT	
	(ADG)	(IMDG / IMO)	(IATA / ICAO)	
UN Number	1956	1956	1956	
Proper Shipping	COMPRESSED GAS, N.O.S.	COMPRESSED GAS, N.O.S.	COMPRESSED GAS, N.O.S.	
Name	(Contains Argon)	(Contains Argon)	(Contains Argon)	
Transport Hazard Class	2.2	2.2	2.2	
Packing Group	None Allocated	None Allocated	None Allocated	

Environmental Hazards No information provided

Special Precautions for User

Hazchem Code 2TE
GTEPG 2C1
EMS F-C, S-V



Other Information: Ensure cylinder is separated from driver and that outlet relief device is not

obstructed.

Section 15: REGULATORY INFORMATION

Safety, Health and Environmental Regulations Legislation Specific for the Substance or Mixture.

Poison Schedule: 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).

Classifications: Safework Australia criteria is based on the Globally Harmonised System (GHS) of

Classification and Labelling of Chemicals.

The classifications and phrases listed below are based on the Approved Criteria for

Classifying Hazardous Substances [NOHSC: 1008(2004)].

Hazard Codes: None Allocated
Risk Phrases: None Allocated
Safety Phrases: None Allocated

Inventory Listing(s): AUSTRALIA: AICS (Australian Inventory of Chemical Substances)

All components are listed on AICS, or are exempt.

Section 16: OTHER INFORMATION

Additional Information The storage of significant quantities of gas cylinders must comply with AS4332 The

Storage and Handling of Gases in Cylinders. When using this gas/gas mixture for welding, cutting and associated processes, additional hazards may be generated by the process such as radiation, noise and fume. Risk assessments should be made for each activity to identify and quantify the individual hazards involved.

APPLICATION METHOD Gas regulator of suitable pressure and flow rating fitted to cylinder or manifold

with low pressure gas distribution to equipment.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES

The recommendation for protective equipment contained within this report is provided as a guide only. Factors

such as 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: 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.

Abbreviations:

ACGIH American Conference of Governmental Industrial Hygienists



CAS # Chemical Abstract Service number - used to uniquely identify chemical compounds

CNS Central Nervous System

EC No. EC No - European Community Number

EMS Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous Goods)

GHS Globally Harmonised System

GTEPG Group Text Emergency Procedure Guide

IARC International Agency for Research on Cancer

LC50 Lethal Concentration, 50% / Median Lethal Concentration

LD50 Lethal Dose, 50% / Median Lethal Dose

mg/m³ Milligrams per Cubic Metre
OEL Occupational Exposure Limit

pH relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly

alkaline).

ppm Parts Per Million

STEL Short-Term Exposure Limit

STOT-RE Specific target organ toxicity (repeated exposure)
STOT-SE Specific target organ toxicity (single exposure)

SUSMP Standard for the Uniform Scheduling of Medicines and Poisons

SWA Safe Work Australia
TLV Threshold Limit Value
TWA Time Weighted Average

[End of SDS]

