MATERIAL SAFETY DATA SHEET (MSDS)

PUREGAS[©]

ARGON He25

SECTION 1: IDENTIFICATION (MATERIAL & SUPPLIER)

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

PURESHIELD He25; ARGON PURESHIELD Synonym(s):

He25, ARGON MIX He25

Uses: Shielding Gas for Welding; Industrial

Applications; as an Inert Atmosphere and Inert

Gas Blanketing.

Supplier Name: Puregas Aust Pty Ltd

Address: 262 Rex Road, Campbellfield VIC 3061

Telephone: 1300 733 097 03 9464 4977 Fax: DIAL 000 Emergency:

24hr EMERGENCY TELEPHONE (Australia Emergency:

Only) 1300 994 556

Website: www.puregas.com.au

30/5/2022 MSDS Date:

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

P410 + P403 Protect from sunlight. Store in a Storage Statements:

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 is not considered a potential route of Ingestion:

exposure.

First Aid Facilities Not applicable

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:

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

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

work pits, or any place where its accumulation can

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 45oC 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

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by chains or similar device to prevent falling over. Keep away from vehicular traffic, emergency

exits and other thoroughfares.

Specific end use(s): No information provided.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

Body

Respiratory

Ingredient	Reference	TWA		STEL	
		ppm	mg/m ²	ppm	mg/m ²
Argon	SWA (Aus)	Simple Asphyxiant			
Helium	SWA (Aus)	Simple Asphyxiant			

Biological limits: No biological limit values have been entered for

this product.

Engineering Controls Provide suitable ventilation **Exposure Controls.**

to minimise or eliminate exposure. Confined areas (e.g., tanks) should be adequately

ventilated or gas tested.

PPF Eye/Face Wear Safety Glasses

Hands Chemical-resistant, impervious gloves complying with an approved standard should be worn.

Personal protective equipment for the body and 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.

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 Odourless Odour: Flammability: Not Flammable. Flash Point: Not relevant **Boiling Point:** Not available Melting Point: Not available **Evaporation Rate:** Not applicable pH: Not applicable Not applicable Specific gravity: Solubility in Water Not available. Vapour Pressure: Not available Upper explosion limit: Not Relevant Lower explosion limit: Not Relevant **Partition Coefficient:** Not available Auto-Ignition Temperature: Not available **Decomposition Temperature:** Not available Not available Viscosity **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 contact with incompatible substances. 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. Not irritating to the eye. Eyes:

Sensitisation: Not classified as causing skin or respiratory

sensitisation

Mutagenicity: No significant ingredient is classified as a

mutagen.

No significant ingredient is classified as a Carcinogenicity:

carcinogen.

No significant ingredient is classified as a Reproductive:

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.

Not classified as causing aspiration. Aspiration:

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.

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

Mobility in Soil Not applicable. 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.

Disposal of this product, solutions and any by-Legislation

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 (ADG)	SEA TRANSPORT (IMDG / IMO)	AIR TRANSPORT (IATA / ICAO)
UN Number	1956	1956	1956
Proper Shipping Name	COMPRESSED GAS, N.O.S. (contains Argon)	COMPRESSED GAS, N.O.S. (contains Argon)	COMPRESSED GAS, N.O.S. (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 F-C, S-V **FMS**

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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

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

Short-Term Exposure Limit

Specific target organ toxicity (repeated exposure)
Specific target organ toxicity (single exposure)

SUSMP Standard for the Uniform Scheduling of Medicines and Poisons
SWA Safe Work Australia

Safe Work Australia Threshold Limit Value Time Weighted Average

STEL

TLV TWA

STOT-RE

STOT-SE

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