MATERIAL SAFETY DATA SHEET (MSDS)



STAINLESS 62

SECTION 1: IDENTIFICATION (MATERIAL & SUPPLIER)

GHS Product Identifier: PG Stainless 62

Product Name: PG Stainless 62

Chemical Name: Argon/Helium/Carbon Dioxide

Synonym(s): ARGON/CARBON DIOXIDE/HELIUM MIXTURE

Uses: Industrial Applications, Shielding Gas, Welding

industrial Applications, Silielarity Gas, v

Gas

Supplier Name: Puregas Aust Pty Ltd

Address: 262 Rex Road, Campbellfield VIC 3061

 Telephone:
 1300 733 097

 Fax:
 03 9464 4977

 Emergency:
 DIAL 000

Emergency: 24hr EMERGENCY TELEPHONE (Australia

Only) 1300 994 556

Website: www.puregas.com.au

MSDS Date: 30/05/2022 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

Physical Hazards: Gases Under Pressure: Compressed Gas

Health Hazards: Not classified as a Health Hazard.

Environmental Hazards: Not classified as an Environmental Hazard.

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. Effects are proportional to oxygen

displacement.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Substances / Mixtures

Ingredient	CAS Number	EC Number	Content
ARGON	7440-37-1	231-147-0	Remainder
HELIUM	7440-59-7	231-168-5	10 to 50%
CARBON DIOXIDE	124-38-9	204-696-9	<15%

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

Eyes: None required

Inhaled: If inhaled, remove from contaminated area. To

protect rescuer, use an Air-line respirator or Self Contained Breathing Apparatus (SCBA). Apply artificial respiration if not breathing. Give oxygen

if available.

Skin: None required.

Ingestion: Ingestion is not considered a potential route of

exposure.
None allocated.

First Aid Facilities None allocated.

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. Low concentrations of CO2 cause

increased respiration and headache.

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

Personal precautions, protective equipment and emergency procedures.

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

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 of safe work practices are recommended to

avoid inhalation. Do not drag, drop, slide or roll cylinders. The uncontrolled release of a gas under pressure may cause physical harm. Use a suitable

hand truck for cylinder movement.

Conditions for safe storage, including any incompatibilities.

Cylinders should be stored below 65°C in a secure area, upright and restrained to prevent cylinders from falling. Cylinders should also be stored in a dry, well ventilated area constructed of non-combustible material with firm level floor (preferably concrete), away from areas of heavy

traffic and emergency exits.

Specific end use(s): No information provided.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters.

Ingredient	Reference	TWA		STEL	
		ppm	mg/m ²	ppm	mg/m ²
Argon	SWA (Aus)	Asphyxiant			
Carbon Dioxide	SWA (AUS)	5000	9000	30000	54000
Carbon Dioxide in coal mines	SWA (AUS	12500	22500	30000	54000
Carbon Dioxide in	SWA	5000	9000	30000	54000
coal mines	(Proposed)				
Helium	SWA (Aus)		Asph	yxiant	

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Biological limits: No biological limit values have been entered for

this product.

Exposure Controls.

Engineering Controls Avoid inhalation. Use in well ventilated areas.

Where an inhalation risk exists, mechanical extraction ventilation is recommended.

PPE

Eye/FaceWear Safety GlassesHandsWear leather gloves.BodyWear Safety BootsRespiratoryWhere an inhalation ri

tory Where an inhalation risk exists, wear Self Contained Breathing Apparatus (SCBA) or an

Air-line respirator.







SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties.

Appearance: Colourless gas Odour: Odourless Flammability: Not Flammable. Flash Point: Not relevant **Boiling Point:** -186°C (Argon) -189°C (Argon). Melting Point: **Evaporation Rate:** Not available. pH: Not available. Vapour density: > 1 (Air - 1). Specific gravity: Not available. Solubility in Water Insoluble. 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 Viscosity Not available **Explosive Properties** Not available **Oxidising Properties** Not available Odour Threshold Not available Volatiles: 100%

SECTION 10: STABILITY AND REACTIVITY

Reactivity. Carefully review all information provided in

sections 10.2 to 10.6.

Chemical Stability. Stable under recommended conditions of

storage.

Possibility of Hazardous Reactions.

Polymerization will not occur.

Conditions to Avoid. Avoid shock, friction, heavy impact, heat, sparks,

open flames and other ignition sources.

Incompatible Materials. Compatible with most commonly used materials.

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: Based on available data the classification criteria

are not met.

Skin: Not classified as a skin irritant
Eyes: Not classified as an eye irritant

Sensitisation: Not classified as causing skin or respiratory

sensitisation.

 Mutagenicity:
 Not classified as a mutagen.

 Carcinogenicity:
 Not classified as a carcinogen.

 Reproductive:
 Not 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.

Aspiration: Not classified as causing aspiration.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity. No ecological damage caused by this product.

Persistence and Degradability.
Bio accumulative Potential.
Mobility in Soil

No information provided.
No information provided.
No information provided.

Other Adverse Effects When discharged to the atmosphere, carbon

dioxide may contribute to the greenhouse effect..

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 in accordance with relevant local

legislation..

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
Special Precautions for User

Not a Marine Pollutant.

Hazchem Code 2TE GTEPG 2C1 FMS 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.

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

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

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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 Chemical Abstract Service number - used to uniquely identify CAS#

chemical compounds Central Nervous System

CNS EC No. EC No - European Community Number

Emergency Schedules (Emergency Procedures for Ships **EMS**

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

Milligrams per Cubic Metre mg/m³ Occupational Exposure Limit OFI

relates to hydrogen ion concentration using a scale of 0 (high рΗ

acidic) to 14 (highly alkaline).

Parts Per Million ppm

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 TLVThreshold Limit Value TWA Time Weighted Average

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