MATERIAL SAFETY DATA SHEET (MSDS)



STAINLESS 98

SECTION 1: IDENTIFICATION (MATERIAL & SUPPLIER)

GHS Product Identifier: PG Stainless 98 **Product Name:** PG Stainless 98 **Chemical Name:** Agron /Carbon dioxide

ARGON SHIELDING GAS COMPRESSED Synonym(s):

MIXTURE

Uses: Industrial Applications, Shielding Gas, Welding

Supplier Name: Puregas Aust Pty Ltd

262 Rex Road, Campbellfield VIC 3061 Address:

1300 733 097 Telephone: 03 9464 4977 Fax: 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 CARBON DIOXIDE 124-38-9 204-696-9 1.5 to 2%

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

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

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.

Carefully move to a well-ventilated area. Allow gas Methods of cleaning up:

to escape to atmosphere, preferably in an open remote location. Do not attempt to repair leaking

valve or cylinder safety devices.

See Section 8 for Exposure Controls and Section Reference to other sections:

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. No information provided.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters.

Specific end use(s):

Ingredient	Reference	TWA		STEL	
		ppm	mg/m²	ppm	mg/m²
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 coal mines	SWA (Proposed)	5000	9000	30000	54000

Biological limits: No biological limit values have been entered for

this product.

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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 Wear leather gloves.
Body Wear Safety Boots

Respiratory 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: -190°C (Approximately) **Melting Point:** Not available. **Evaporation Rate:** Not available. Not available pH: Vapour pressure: Not available 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 Not available **Explosive Properties 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.
Compatible with most commonly used materials.

Incompatible Materials. Compatible 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.

Not classified as causing organ damage from

STOT Repeated Exposure: Not classified as cau repeated exposure.

Aspiration: Not applicable to gases and gas mixtures.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity. No ecological damage caused by this product.

Persistence and Degradability. The product is expected to biodegrade and is not expected to persist for long periods in an aquatic

environment.

Bio accumulative Potential. This product does not bioaccumulate.

Mobility in Soil The substance is a gas, not applicable.

Other Adverse Effects No information provided.

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 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. AUSTRALIA: AICS (Australian Inventory of

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

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity

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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

GHS Carrying Dangerous Goods)
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

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