MATERIAL SAFETY DATA SHEET (MSDS)



SDS No: 6

ARGON 07

SECTION 1: IDENTIFICATION (MATERIAL & SUPPLIER)

GHS Product Identifier:	Argon, Oxygen mixed
Product Name:	Argon, Oxygen compressed
Chemical Name:	Argon 93%, Oxygen 7%
Synonym(s):	PURE SHIELD 07; ARGON 07, ARGON MIX
Uses:	Shielding Gas for Welding; Industrial Applications.
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:	30/5/2022

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

CLASSIFIED AS DANGEROUS GOODS BT THE CRITERIA OF THE ADG CODE		
GHS Classification:	Gases Under Pressure: Compressed Gas	
Label Elements:		
Signal Word:	WARNING	
	$\widehat{}$	
Pictogram(s):	\mathbf{V}	
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	93%
OXYGEN	7782-44-7	231-956-9	7%

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: Inhaled:	Not applicable. Remove from exposure, but avoid becoming a casualty. To protect rescuer, use an Air-line
	respirator or Self-Contained Breathing Apparatus (SCBA) Apply artificial respiration if not

Skin: Ingestion: First Aid Facilities Most important symptoms and eff	In high concentrations may cause asphyxiation. Symptoms may include loss of mobility / consciousness. Victim may not be aware of			
Immediate medical attention and s	asphyxiation.			
	Treat symptomatically.			
SECTION 5: FIRE FIGHTING M	EASURES			
Extinguishing Media:	Use water fog to cool containers from protected area.			
Special hazards arising from the s				
Advice for Firefighters:	Non-Flammable. Temperatures in a fire may cause cylinders to			
Hazchem Code:	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. 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.				
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			

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

SECTION 7: HANDLING AND STORAGE

Reference to other sections:

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.
	physical flatfit.

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. No information provided.

Specific end use(s):

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters.

Ingredient	Reference	TWA		ST	EL	1
•		ppm	mg/m ²	ppm	mg/m ²	
Argon	SWA (Aus		Asp	hxiant		
Biological limits:		No biological limit values have been entered for this product.			d for	
Exposure Controls.						
	tı a	o minimise ireas (e.g.	e or elimina	Provide su te exposur ould be ade ed.	e. Confined	
PPE						
Eye/Face Hands	(Chemical-r		npervious g Idard shoul		
Body	F a c ii	Personal p oppropriate on the task nvolved ar	rotective e footwear being perf	quipment for should be st formed and the approved	or the body selected ba the risks	and ised
Respiratory				air-purifying		

respirator complying with an approved standard if a risk assessment indicates this is necessary.



Colourless gas

Not Flammable.

Odourless

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties.

Appearance:
Odour:
Flammability:
Flash Point:
Boiling Point:
Melting Point:
Evaporation Rate:
pH:
Specific gravity:
Solubility in Water
Vapour Pressure:
Upper explosion limit:
Lower explosion limit:
Partition Coefficient:
Auto-Ignition Temperature:
Decomposition Temperature:
Viscosity
Explosive Properties
Oxidising Properties
Odour Threshold
Volatiles:

Not relevant Not available. Not available. Not available. Not available. Not available. Insoluble. Not available Not Relevant Not Relevant Not available Not available Not available Not available

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 Reactio	ns.	
-	Under normal conditions of storage and use,	
	hazardous reactions 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.	

Not available

Not available

Not available

100%

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 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.
Aspiration:	Not classified as causing aspiration.
SECTION 12: ECOLOGICAL I	NFORMATION
Toxicity. Persistence and Degradability.	No ecological damage caused by this product. This product is expected to biodegrade and is not expected to persist for long periods in an aquatic environment.

Bioaccumulative Potential.	No information provided
Mobility in Soil	Not applicable.
Other Adverse Effects	No information provided

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Treatment Methods

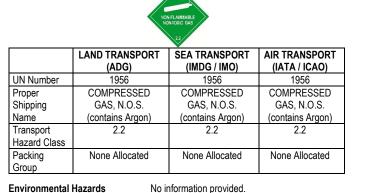
Waste disposal

Legislation

Cylinders should be returned to the manufacturer or supplier for disposal of contents. Disposal of this product, solutions and any byproducts 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



Environmental Hazards Special Precautions for User

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

Other Information:

Ensure cylinder is separated from driver and that outlet relief device is not obstructed.



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SECTION 15: REGULATORY INFORMATION		STOT-SE SUSMP	Specific target organ toxicity (single exposure)
Safety, Health and Environm	nental Regulations	SWA	Standard for the Uniform Scheduling of Medicines and Poisons Safe Work Australia
Legislation Specific for the Substance or Mixture.		TLV TWA	Threshold Limit Value Time Weighted Average
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: Risk Phrases:	None Allocated 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 INF	ORMATION		
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		

controls should be considered before final selection of personal protective equipment is

gas distribution to equipment. PERSONAL PROTECTIVE EQUIPMENT GUIDELINES

made.

APPLICATION METHOD

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.

Gas regulator of suitable pressure and flow rating fitted to cylinder or manifold with low pressure

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

individual hazards involved.

ABBREVIATIONS:

ACGIH	American Conference of Governmental Industrial Hygienists
CAS #	Chemical Abstract Service number - used to uniquely identify
CNS EC No. EC No - EMS	chemical compounds Central Nervous System European Community Number Emergency Schedules (Emergency Procedures for Ships
GHS GTEPG IARC	Carrying Dangerous Goods) Globally Harmonised System Group Text Emergency Procedure Guide International Agency for Research on Cancer
LC50	Lethal Concentration, 50% / Median Lethal Concentration
LD50	Lethal Dose, 50% / Median Lethal Dose
mg/m ³	Milligrams per Cubic Metre
OEL pH	Occupational Exposure Limit 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)