

Version: 4

Revision date: 2025-04-25

Methane- Argon Mixture P10 - compressed

PG-SDS-17

This SDS conforms to the Globally Harmonised System (GHS), South African Regulations on Hazardous Chemical Agents, and SANS 10234, SANS 11014 & SANS 10228.

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION		
Product name	10% Methane Balance Argon Mixture – P10	
Chemical Name	10% Methane Balance Argon mixture	
Other means of identification	P10	
Recommended Intended Purpose	The product is used in various applications and may include – Industrial used. Always use as intended.	
Company Information	Puregas (Pty) Ltd PO Box 123884, Alrode, 1451, Gauteng, South Africa Tel: (011) 903 9760 Fax: (011) 903 9766 Cellphone: 082 889 6946 (1st)	
Emergency Telephone	0800 172 743 Rapid Spill Response - 24 hours, 7 days a week	

SECTION 2. HAZARDS IDENTIFICATION				
Classification of the	Classification of the mixture - GHS classification as published through ECHA			blished through ECHA
Hazard Classification	า	Category Hazard Statement		Statement
Gases under pressur	e (Comp.)	2.2	H280	Contains gas under pressure; may explode if heated
Flammable Gas		1	H220	Extremely flammable gas.
Hazard Pictograms			GI	HS04 GHS02
Signal Word		Danger		
Precautionary State	Precautionary Statements			
General:	P101	If	If medical advice is needed, have product container or label at hand	
	P102	Ke	Keep out of reach of children	
	P103		Read carefully and follow all instructions	
Prevention	P202		Do not handle until all safety precautions have been read and understood.	
	P210		Keep away from heat, hot surfaces, sparks, open flames and other	
			ignition sources. No smoking	
	P280	P280 Wear protective gloves/eye protection/face protection		ctive gloves/eye protection/face protection
Response	P377		Leaking gas fire: Do not extinguish, unless leak can be stopped safely.	
	P381		In case of leakage, eliminate all ignition sources	
Storage	P403		Store in a well-ventilated place.	
	P405	P405 Store locked up.		
Disposal		None		
Main Hazard	Contains	Contains gas under pressure; may explode if heated.		
	Methane	Methane is an extremely flammable gas.		
Other Hazards	Asphyxia	Asphyxiant in high concentrations.		



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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS			
Mixture			
CAS No	EC No	Name	%
74-82-8	200-812-7	Methane	0-10
7440-37-1	231-147-0	Argon, Compressed	99-90
LINI Niversity and	1056		

See Section 8 for Exposure Guidelines and Section 15 for Regulatory Classifications.

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	/		Λ III	MEASURES
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SECTION 4. FIRST AID WEASONES		
In the case of inhalation	Remove the victim to fresh air and keep at rest in a position comfortable for breathing. If adverse effects occur, remove them to an uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention	
In case of skin contact		
	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes.	
In case of eye contact		
	Flush eyes with plenty of water for 10 to 15 minutes	
In case of ingestion		
	Not an expected route of exposure	
Treatment (Advice to doctor)		
	For Inhalation, consider oxygen	

SECTION 5. FIRE-FIGHTING MEASURES		
Fire / Explosion hazard:	Negligible fire hazard. Pressurized containers may rupture or explode if exposed to heat.	
Suitable extinguishing media	Use extinguishing agents appropriate for surrounding fire. Use spray water to keep containers cool.	
Unsuitable extinguishing media	None Known	
Special protective equipment for fire-fighters	Wear full protective firefighting gear including self-contained breathing apparatus (SCBA) for protection against possible exposure.	

Special hazards arising from the substance

Move the container from the fire area if it can be without risk. Cool containers with water spray until well after the fire is out. Withdraw immediately in case of rising sound from the venting safety device or any

discoloration of tanks due to fire.

Avoid inhalation of material or combustion by-products.

Stay upwind and keep out of low areas.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear personal protective clothing and equipment, see Section 8.
	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.
	Wear an appropriate respirator when ventilation is inadequate. Put on
	appropriate personal protective equipment.



containment and cleaning up

SAFETY DATA SHEET

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Environmental precautions	Keep unnecessary people away, isolate hazard areas, and deny entry. Ensure emergency procedures to deal with accidental gas releases are in place to avoid contamination of the environment. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways soil or air)	
Methods and material for	waterways, soil, or air). Immediately contact emergency personnel. Stop leak if without risk.	

SECTION 7. HANDLING AND STORAGE		
Precautions for safe handling	Avoid breathing gas. Use only with adequate ventilation	
	Put on appropriate personal protective equipment (see Section 8).	
	Contains gas under pressure. Do not puncture or incinerate the container.	
	Use equipment rated for cylinder pressure. Close the valve after each use and when empty.	
	Protect cylinders from physical damage; do not drag, roll, slide, or drop.	
	Avoid contact with eyes, skin, and clothing.	
	Empty containers retain product residue and can be hazardous.	
Hygiene	Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored, and processed.	
	Workers should wash their hands and face before eating, drinking, and smoking.	

Requirements for storage rooms and vessels

Store and handle in accordance with all current regulations and standards.

Protect from sunlight.

Store in a well-ventilated area.

Keep separated from incompatible substances.

Outside or detached storage is preferred.

Protect from physical damage.

Cylinders should be stored upright with a valve protection cap in place and

firmly secured to prevent falling.

Keep at temperatures below 52°C / 125°F.

Full and empty cylinders should be segregated. Use a "first in first out" inventory system to prevent full cylinders from being stored for excessive periods of time.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

	•
No exposure limits are available	
Respiratory protection	Occupational As the mixture is a simple asphyxiant, avoid exposure hazards in any areas where spillage has taken place. Only enter once testing has proved the atmosphere to be safe and remember that the gas is heavier than air. Self-contained breathing apparatus should always be worn when entering an area where oxygen depletion may have occurred.
Hand protection	Glove
Eye protection	Safety goggles,
Skin and body protection	Safety shoes or boots should be worn when handling containers.
Engineering Controls	Engineering control measures are preferred to reduce exposure to oxygen-depleted atmospheres. General methods include forced-draft ventilation, separate from other exhaust ventilation systems. Ensure that sufficient fresh air enters at or near floor level.



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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state Colourless liquified gas

Colour
Odour
Odourless
Taste
Taste
pH
Not available
Melting point
Roiling point
Taste
-182.5 °C (Methane)

Boiling point -162 °C (Methane)
Auto-ignition temperature 580°C (Methane)
Decomposition temperature Not applicable

Flammability limits in air 5,0 - 15,4% by vol. (Methane)

SECTION 10. STABILITY AND REACTIVITY

Reactivity None

Chemical Stability Stable under normal conditions

Conditions to avoid The dilution of oxygen concentration in the atmosphere to levels that cannot

support life. Never expose the cylinders to excessive heat, as this may cause

sufficient build-up of pressure to rupture the cylinders.

Incompatible materials Oxidizing agents

Hazardous decomposition Carbon monoxide, Carbon dioxide

products.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity:

Germ cell mutagenicity:

Carcinogenicity:

Reproductive toxicity:

Not classified
Not classified
Not classified
Not classified

SECTION 12. ECOLOGICAL INFORMATION

No ecological damage was caused by this product.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

Disposal of the gas should only be handled by the gas supplier.

Packaging: The disposal of cylinders must only be handled by the gas supplier.

SECTION 14. TRANSPORT INFORMATION

UN Pictogram



Land and inland navigation transport ADR/RID

UN No. 1956, Shipping Name P10, Class 2.1, Subsidiary Risk flammable, non-toxic gases, Hazchem Warning 2A.

Marine transport IMDG

MDG 1956, Shipping Name P10, Class 2.1, Subsidiary Risk flammable, non-toxic gases.



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Air transport ICAO/IATA-DGR

ICAO/IATA Code 1956, Class 2.1, Packing Group: - Packaging instructions - 200

Special precautions for user

The protective measures listed in Sections 6, 7, and 8 of the Safety Data Sheet have to be considered.

SECTION 15. REGULATORY INFORMATION

Safety, health, and environmental regulations/legislation specific for the substance or mixture:

Occupational Health and Safety Act, Hazardous Chemical Agents Regulations

SANS 11014:2010 Edition 1

SANS 10228:2012 Edition 6

SANS 10234:2019 Edition 2

SUPPLEMENT TO SANS 10234 Edition 1

National Road Traffic Act

Dangerous Goods Regulations

SECTION 16. OTHER INFORMATION

SELECTED BIBLIOGRAPHY

- 1. Data sheets as supplied by various Suppliers and Manufacturers
- 2. Emergency Response Handbook Annex A of SABS 0232-3
- 3. GHS Purple booklet
- 4. ECHA
- 5. Occupational Health and Safety Act, Hazardous Chemical Agents Regulations
- 6. SANS 11014:2010 Edition 1
- 7. SANS 10228:2012 Edition 6
- 8. SANS 10234:2019 Edition 2
- 9. SUPPLEMENT TO SANS 10234 Edition 1
- 10. National Road Traffic Act
- 11. Dangerous Goods Regulations

Disclaimer:

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety, and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.