



SAFETY DATA SHEET

Revised edition no : 2
Date : 12/05/2014


Argon Compressed Gas

PG 001

SECTION 1. IDENTIFICATION OF THE PRODUCT AND COMPANY UNDERTAKING

Trade Name	MTG MSDS 5; ARGON; UN 1006; MAT01860
Chemical Family	Non- metallic
Product Use	Industrial
Usage Restrictions on Use	None Known
Company:	Puregas (Pty) Ltd PO Box 123884, Alrode, 1451, South Africa Tel : (011) 903 9760 Fax: (011) 903 9766 Cellphone: 082 889 6946 (1 st) 082 885 7475 (2 nd) Info@puregas.co.za Emergency Tel: 0800 172 743 (Rapid Spill Response)

SECTION 2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION	Gas under pressure, compressed gas
GHS SYMBOL	
Signal Word	WARNING
GHS HAZARD STATEMENT	Contains gas under pressure; may explode if heated. Physical Form: Gas
EMERGENCY OVERVIEW	PHYSICAL HAZARDS: Containers may rupture or explode if exposed to heat.
POTENTIAL HEALTH EFFECTS	
INHALATION	Short Term: nausea, vomiting, tingling sensation, suffocation, coma, headache, drowsiness, dizziness, loss of coordination, unconsciousness, fatigue, impairment of judgment, irregular heartbeat. Long Term: No information is available
SKIN CONTACT	Short Term: Frostbite Long Term: No information is available
EYES CONTACT	Short Term: Frostbite, blurred vision Long Term: No information available
INGESTION	Short Term: Ingestion of a gas is unlikely Long Term: Ingestion of a gas is unlikely



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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

COMPOSITION	ARGON, COMPRESSED
CAS NUMBER	7440-37-1
EC NUMBER (EINECS)	231-147-0
PERCENTAGE	100.0

SECTION 4. FIRST AID MEASURES

Inhalation	If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention
Skin contact	Wash exposed skin with soap and water.
Eye contact	Flush eyes with plenty of water.
Ingestion	If a large amount is swallowed, get medical attention.
Notes to physician	For Inhalation, consider oxygen

SECTION 5. FIRE-FIGHTING MEASURES

FIRE AND EXPLOSION HAZARDS	Negligible fire hazard. Pressurized containers may rupture or explode if exposed to heat.
EXTINGUISHING MEDIA Large fires	Use extinguishing agents appropriate for surrounding fire. Use spray water to keep containers cool.
UNSUITABLE EXTINGUISHING MEDIA	None Known
Protective Equipment and Precautions for Firefighters	Wear full protective firefighting gear including self-contained breathing apparatus (SCBA) for protection against possible exposure.
Fire Fighting Measures	Move container from fire area if it can be without risk. Cool containers with water spray until well after the fire is out. Stay away from the ends of tanks. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. For tank, rail car or tank truck, evacuation radius: 800 meters. Use extinguishing agents appropriate for surrounding fire. Cool containers with water spray until well after the fire is out. Apply water from a protected location or from a safe distance. Do not get water directly on material. Reduce vapors with water spray. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas. Consider downwind evacuation if material is leaking.

SECTION 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTION	Wear personal protective clothing and equipment, see Section 8.
EMERGENCY PROCEDURE	Keep unnecessary people away, isolate hazard area and deny entry.
ENVIRONMENTAL	Avoid release to the environment

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PRECAUTIONS METHODS AND MATERIALS FOR CONTAINMENT AND CLEANUP	Avoid heat. Ventilate closed spaces before entering. Damaged cylinders should be handled only by specialists.
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SECTION 7. HANDLING AND STORAGE

HANDLING STORAGE	Avoid breathing gas. Use only with adequate ventilation Store and handle in accordance with all current regulations and standards. Protect from sunlight. Store in a well – ventilated area. Subject to storage regulations: OHS Act 85 of 1993. Keep separated from incompatible substances.
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SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS BIOLOGICAL LIMIT VALUES ENGINEERING CONTROLS EYE PROTECTION CLOTHING GLOVES RESPIRATOR For Unknown Concentrations or Immediate Dangerous to Life or Health	<p>ARGON, COMPRESSED ARGON: ACGIH (Simple asphyxiant)</p> <p>ARGON, COMPRESSED: No biological limit value(s) available</p> <p>Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.</p> <p>Eye protection not required, but recommended</p> <p>Protective clothing is not required.</p> <p>Wear appropriate chemical resistant gloves.</p> <p>Under conditions of frequent use heavy exposure, respiratory protection may be needed. Respiratory protection is ranked in order from minimum to maximum. Consider properties before use.</p> <p>Any supplied-air respirator with a full facepiece that is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive-pressure mode.</p> <p>Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode.</p>
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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Gas
COLOR	Colorless
ODOUR	Odorless
TASTE	Tasteless
MOLECULAR WEIGHT	39.948
MOLECULAR FORMULA	Ar
BOILING POINT	-186 C
FREEZING POINT	-189 C
FLASH POINT	Not available
UPPER FLAMMABLE LIMIT	Not available
AUTO IGNITION	Not available
DECOMPOSITION	Not available
VAPOR PRESSURE(air=1)	500 MMHG@ -190 C
VAPOR DENSITY	1.380
SPECIFIC GRAVITY	Not available
DENSITY	1.784 G/L @ 0 C
WATER SOLUBILITY	3.36% @ 20 C
PH	Not applicable
VOLATILITY	Not applicable
ODOR THRESHOLD	Not applicable
EVAPORATION RATE	Not applicable
VISCOSITY	0.0225 Cp @ 25 C
COEFFICIENT OF WATER/OIL DISTRIBUTION	Not applicable
OCTANOL/WATER PARTITION COEFFICIENT (LOG Kow)	Not applicable
SOLVENT SOLUBILITY	Soluble: Liquid ammonia



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SECTION 10. TOXICOLOGICAL INFORMATION

ARGON, COMPRESSED	LIKELY ROUTES OF EXPOSURE: Inhalation, skin, eyes. ASPIRATION HAZARD: Not applicable
SENSITISER	Respiratory Sensitizer: No data available Dermal Sensitizer: No data available
EFFECTS FROM EXPOSURE	IMMEDIATE: Suffocation, frostbite DELAYED: No data available
IRRITATION DATA	No animal testing data available for skin or eyes.
CARCINOGEN STATUS	No data available
LOCAL EFFECTS	No data available
TARGET ORGANS	Simple asphyxiant
CHRONIC EFFECT	No data available
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE	None Known
TUMORIGENIC DATA	No data available
MUTAGENIC DATA	No data available
REPRODUCTIVE EFFECTS DATA	No data available

SECTION 11. ECOLOGICAL INFORMATION

ECOTOXICITY DATA	
FISH TOXICITY	No data available
INVERTEBRATE TOXICITY	No data available
ALGAL TOXICITY	No data available
FATE AND TRANSPORT	
BIODEGRADATION	No data available
MOBILITY	No data available
PERSISTENCE	No data available
BIOACCUMULATION	No data available

SECTION 12. DISPOSAL CONSIDERATIONS

Disposal methods	Dispose in accordance with all regulations
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SECTION 13. TRANSPORT INFORMATION**U.S. DOT 49 CFR 172.101**

Shipping Name	Argon, compressed
UN/NA #	UN1006
Hazard Class	2.2
Require Label (s)	2.2
IMDG Information Proper Shipping Name	Argon, compressed
UN #	UN1006
Hazard Class	2.2

SECTION 14. REGULATORY INFORMATION**Component Analysis****U. S. Federal Regulations****CERCLA SECTIONS 102a/103 HAZARDOUS SUBTANCES (40 CFR 302.4):**

Not regulated.

SARA TITTLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355.30):

Not regulated

SARA TITTLE III SECTION 304 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355.30):

Not regulated

SARA TITTLE III SECTION 311/312 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 370.21):**ACUTE:** Yes**CHONIC:** No**FIRE:** No**REACTIVE:** No**SUDDEN RELEASE:** Yes**SARA TITTLE III SECTION 313 (40 CFR 372.65):** Not regulated**TSCA 12 (b) EXPORT NOTIFICATION:** Not Listed**SECTION 15. OTHER INFORMATION****NFPA RATINGS (SCALE 0-4)** Health =0 Fire=0 Reactivity=0**REVISION DATE:** Nov 25 2008

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