


	<b>SAFETY DATA SHEET</b>	Revised edition no : 2 Date : 12/05/2014
	<b>Argon Compressed Gas</b>	PG 001

SECTION 1. IDENTIFICATION OF THE PRODUCT AND COMPANY UNDERTAKING	
<b>Trade Name</b>	MTG MSDS 5; ARGON; UN 1006; MAT01860
<b>Chemical Family</b>	Non- metallic
<b>Product Use</b>	Industrial
<b>Usage Restrictions on Use</b>	None Known
<b>Company:</b>	PUREGAS (Pty) Ltd PO Box 123884, Alrode, 1451, South Africa <b>Tel :</b> (011) 903 9760 <b>Fax:</b> (011) 903 9766 <b>Cellphone:</b> 082 889 6946 (1 <sup>st</sup> ) 082 885 7475 (2 <sup>nd</sup> ) <b>Emergency Tel:</b> 0800 172 743 (Rapid Spill Response)

SECTION 2. HAZARDS IDENTIFICATION	
<b>GHS CLASSIFICATION</b>	Gas under pressure, compressed gas
<b>GHS SYMBOL</b>	
<b>Signal Word</b>	WARNING
<b>GHS HAZARD STATEMENT</b>	Contains gas under pressure; may explode if heated. <b>Physical Form:</b> Gas
<b>EMERGENCY OVERVIEW</b>	<b>PHYSICAL HAZARDS:</b> Containers may rupture or explode if exposed to heat.
<b>POTENTIAL HEALTH EFFECTS</b>	
<b>INHALATION</b>	<b>Short Term:</b> nausea, vomiting, tingling sensation, suffocation, coma, headache, drowsiness, dizziness, loss of coordination, unconsciousness, fatigue, impairment of judgment, irregular heartbeat.  <b>Long Term:</b> No information is available
<b>SKIN CONTACT</b>	<b>Short Term:</b> Frostbite <b>Long Term:</b> No information is available
<b>EYES CONTACT</b>	<b>Short Term:</b> Frostbite, blurred vision <b>Long Term:</b> No information available
<b>INGESTION</b>	<b>Short Term:</b> Ingestion of a gas is unlikely <b>Long Term:</b> 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 PRECAUTIONS	Avoid release to the environment



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#### METHODS AND MATERIALS FOR CONTAINMENT AND CLEANUP

Avoid heat. Ventilate closed spaces before entering. Damaged cylinders should be handled only by specialists.

## SECTION 7. HANDLING AND STORAGE

#### HANDLING

Avoid breathing gas. Use only with adequate ventilation

#### STORAGE

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.

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### EXPOSURE LIMITS

#### ARGON, COMPRESSED

**ARGON:**  
ACGIH (Simple asphyxiant)

#### BIOLOGICAL LIMIT VALUES

**ARGON, COMPRESSED:**  
No biological limit value(s) available

#### ENGINEERING CONTROLS

Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

#### EYE PROTECTION

#### CLOTHING

Eye protection not required, but recommended

#### GLOVES

Protective clothing is not required.

#### RESPIRATOR

Wear appropriate chemical resistant gloves.

#### For Unknown Concentrations or Immediate Dangerous to Life or Health

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.

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.

Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

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



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#### SECTION 10. TOXICOLOGICAL INFORMATION

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

#### SECTION 11. ECOLOGICAL INFORMATION

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

#### SECTION 12. DISPOSAL CONSIDERATIONS

<b>Disposal methods</b>	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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