# <del>60</del>Industries

2460 Boulevard Of The Generals P.O. Box 945 Valley Forge, Pennsylvania 19482 EMERGENCYPHONE 800-345-6361

800-362-0534 (in PA)

MATERIAL \_\_\_\_\_ SAFETY DATA SHEET

# HRGON COMPRESSEd "Gas"

PRODUCT NAME		CAS # 7440-37-1
Argon		DOT I.D. No:
TRADE NAME AND SYNONYMS		UN 1006
Argon; Argon, compressed		DOT Hazard Class:
CHEMICAL NAME AND SYNONYMS	in an of a fair we have considered and a set and a set and a set and a set of the set of t	Nonflammable gas
Argon		Formula:
111 90		Ar
ISSUE DATE AND REVISIONS		Chemical Family:
25 November 1985		Rare gas

#### HEALTH HAZARD DATA

TIME WEIGHTED AVERAGE EXPOSURE LIMIT Argon is defined as a simple asphyxiant. Oxygen levels should be maintained at greater than 18 molar percent at normal atmospheric pressure which is equivalent to a partial pressure of 135 mm Hg (ACGIH, 1985-86). SYMPTOMS OF EXPOSURE Effects of exposure to high concentrations so as to displace the oxygen in air necessary for life may include any, all, or none of the following: O Loss of balance or dizziness O Tightness in the frontal area of the forehead O Tingling in the tongue, fingertips or toes (Continued on last page.) TOXICOLOGICAL PROPERTIES

Argon is nontoxic but the liberation of a large amount in a confined area could displace the amount of oxygen in air necessary to support life.

#### RECOMMENDED FIRST AID TREATMENT

PROMPT MEDICAL ATTENTION IS MANDATORY IN ALL CASES OF OVEREXPOSURE TO ARGON. RESCUE PERSONNEL SHOULD BE EQUIPPED WITH SELF-CONTAINED BREATHING APPARATUS.

Inhalation: Conscious persons should be assisted to an uncontaminated area and inhale fresh air. Quick removal from the contaminated area is most important. Unconscious persons should be moved to an uncontaminated area, given mouth-to-mouth resuscitation and supplemental oxygen. Further treatment should be symptomatic and supportive.

Information contained in this material safety data sheet is offered without charge for use by technically qualified personnel at their discretion and risk. All statements, technical information and recommendations contained herein are based on tests and data which we believe to be reliable, but the accuracy or completeness thereof is not guaranteed and no warranty of any kind is made with respect thereto. This information is not intended as a license to operate under or a recommendation to practice or infringe any patent of this Company or others covering any process, composition of matter or use.

Since the Company shall have no control of the use of the product described herein, the Company assumes no liability for loss or damage incurred from the proper or improper use of such product.

					Page 2	
НА	ZARDOUS	MIXTURES OF OTH	HER LIQUIDS, SOI	LIDS, OR GASES		
Yo						
		PHYSIC	AL DATA			
BOILING POINT				LIQUID DENSITY AT BOILING POINT		
-302.6°F (-185.9°C) VAPOR PRESSURE @ 70°F (21.1°C): Above the		GAS DENSITY AT 70°F, 1 atm				
critical temp. of -188.1°F (-122.3°C)		.1034 1b/ft <sup>3</sup> (1.656 kg/m <sup>3</sup> ) FREEZING POINT				
Very slightly EVAPORATION RATE		-308.9°F (-189.4°C) SPECIFIC GRAVITY (AIR=1)				
N/A			1.38			
APPEARANCE AND ODOR Colorless; odorle	ss.gas					
		FIRE AND EXPLOS		TA IMITS % BY VOLUME	**************************************	
FLASH POINT (Method used)		GNITION TEMPERATURE	LEL N/A	UEL	N/A	
EXTINGUISHING MEDIA Nonflammable, ine	rt gas			ELECTRICAL CLASSIFIC Nonhazardou		
SPECIAL FIRE FIGHTING PF						
N/A						
UNUSUAL FIRE AND EXPLO	SION HAZARDS	6	n - Angelen and Angelen - An angelen an			
N/						
	and a second		/ITY DATA			
STABILITY Unstable		CONDITIONS TO AVOID				
Stable	Х	N/A				
INCOMPATIBILITY (Materials	to avoid)					
HAZARDOUS DECOMPOSIT	ION PRODUCTS	3				
None HAZARDOUS POLYMERIZAT	<b>FION</b>	CONDITIONS TO AVOID				
May Occur		4. 6.				
Will Not Occur	X	N/A				
			K PROCEDURES			
leak is in contai	onnel fro iner or co	m affected area. ntainer valve, com ne number listed	ntact your close	protective equi st supplier loca	pment. If tion or	
w DISPOSAL METHOD Do not attempt to dispose of waste or unused quantities. Return in the shipping container properly labeled, with any valve outlet plugs or caps secured and valve protection cap in place to your supplier. For emergency disposal assistance, contact your closest supplier location or call the emergency telephone number listed here n.						

Aryon	SPECIAL PROTECTION INFORMATION					
RESPIRATORY PROTECTION (Specily type) Positive pressure air line with mask or self-contained						
breathing apparatus should be available for emergency use.						
VENTILATION	LOCAL EXHAUST	SPECIAL				
See Local Exhaust	See last page.	N/A				
on last page.	MECHANICAL (Gen.)	OTHER				
	N/A	N/A				
PROTECTIVE GLOVES		######################################				
Any material						
EYE PROTECTION		us senten en ser en la senten de la				
Safety goggles or glasse	es de la companya de					
OTHER PROTECTIVE EQUIPMENT						
Safety shoes						
SPECIAL PRECAUTIONS*						
SPECIAL LABELING INFORMATION						

DOT Shipping Name: Argon or Argon, Compressed DOT Shipping Label: Nonflammable gas SPECIAL HANDLING RECOMMENDATIONS DOT Shipping Name: Argon or Argon, Compressed I.D. No.: UN 1006

Use only in well-ventilated areas. Valve protection caps must remain in place unless container is secured with valve outlet piped to use point. Do not drag, slide or roll cylinders. Use a suitable hand truck for cylinder movement. Use a pressure reducing regulator when connecting cylinder to lower pressure (<3,000 psig) piping or systems. Do not heat cylinder by any means to increase the discharge rate of product from the cylinder. Use a check valve or trap in the discharge line to prevent hazardous back flow into the cylinder.

For additional recommendations, consult Compressed Gas Association's Pamphlets P-1, P-9, P-14, and Safety Bulletin SB-2.

#### SPECIAL STORAGE RECOMMENDATIONS

Protect cylinders from physical damage. Store in cool, dry, well-ventilated area away from heavily trafficked areas and emergency exits. Do not allow the temperature where cylinders are stored to exceed 130F (54C). Cylinders should be stored upright and firmly secured to prevent falling or being knocked over. Full and empty cylinders should be segregated. Use a "first in-first out" inventory system to prevent full cylinders being stored for excessive periods of time.

For additional recommendations, consult Compressed Gas Association's Pamphlets P-1, P-9, P-14, and Safety Bulletin SB-2.

SPECIAL PACKAGING RECOMMENDATIONS

Argon is noncorrosive and may be used with any common structural material.

OTHER RECOMMENDATIONS OR PRECAUTIONS

Compressed gas cylinders should not be refilled except by qualified producers of compressed gases. Shipment of a compressed gas cylinder which has not been filled by the owner or with his (written) consent is a violation of Federal Law (49CFR).

\*Various Government agencies (i.e., Department of Transportation, Occupational Safety and Health Administration. Food and Drug Administration and others) may have specific regulations concerning the transportation, handling, storage or use of this product which will not be reflected in this\_\_\_\_\_\_\_ data sheet. The customer should review these regulations to ensure that he is in full compliance.

## >YMPTOMS OF EXPOSURE: (Continued)

o pid reduction in the ability to perform movements
o Reduced consciousness of the surroundings
o Loss of tactile sensations
o Heightened mental activity

It should be recognized that it is possible that none of the above symptoms may occur in argon asphyxia so that there are no definite warning symptoms.

Page 4

### LOCAL EXHAUST: (Continued)

To prevent accumulation of high concentrations so as to reduce the oxygen level in the air to less than 18 molar percent.