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**MSDS: Argon Compressed**

## PRODUCT INFORMATION

**PRODUCT:** Argon  
**TRADE NAME:** Argon  
**CHEMICAL NAME:** Argon  
**SYNONYMS:** Argon Compressed  
**FORMULA:** Ar  
**CHEMICAL FAMILY:** Inert Gas or Rare Gas  
**SUPPLIER'S NAME:** MEGS Inc.  
**SUPPLIER'S ADDRESS:** 2675 De Miniac  
Ville St-Laurent, Qc, H4S 1E5  
**EMERGENCY PHONE NUMBER:** (514) 956-7503  
**MOLECULAR WEIGHT:** 39.95  
**PRODUCT USE:** Various  
**PRODUCT IDENTIFICATION UN 1006**  
**NUMBER:**

## HAZARDOUS INGREDIENTS

<b>CHEMICAL ID</b>	<b>CONCENTRATION</b>	<b>CAS #</b>	<b>LD(50)</b>	<b>LC(50)</b>
Argon	100%	7440-37-1	None	None

## PHYSICAL DATA

**PHYSICAL STATE:** Gas  
**APPEARANCE:** Colorless gas  
**ODOR:** Odorless  
**ODOR THRESHOLD:** Not applicable  
**SPECIFIC GRAVITY (H<sub>2</sub>O = 1):** See Vapor Density (air = 1)  
**VAPOR PRESSURE:** Not applicable (gas)  
**VAPOR DENSITY (air = 1):** 1.380

**EVAPORATION RATE:** Not applicable (gas)  
**BOILING POINT:** -185.86°C  
**FREEZING POINT:** -189.37°C  
**pH:** Not applicable (gas)  
**GAS DENSITY:** 1.687 kg/m<sup>3</sup> @ 15°C, 101.3 kPa  
**COEFFICIENT OF WATER/OIL @ 15°C, Bunsen Coefficient =**  
**DISTRIBUTION:** 0.0375

### **FIRE OR EXPLOSION HAZARD**

**CONDITIONS OF FLAMMABILITY:** Nonflammable gas  
**MEANS OF EXTINCTION:** Nonflammable gas  
**FLASHPOINT AND METHOD OF DETERMINATION:** Nonflammable gas  
**UPPER EXPLOSION LIMIT (% BY VOL):** Nonflammable gas  
**LOWER EXPLOSION LIMIT (% BY VOL):** Nonflammable gas  
**AUTO-IGNITION TEMPERATURE:** Nonflammable gas  
**FLAMMABILITY CLASSIFICATION:** Nonflammable gas  
**HAZARDOUS COMBUSTION PRODUCTS:** Nonflammable gas  
**EXPLOSION DATA:** Nonflammable gas  
**SENSITIVITY TO STATIC DISCHARGE:** Nonflammable gas

### **REACTIVITY DATA**

**CHEMICAL STABILITY:** Stable  
**INCOMPATIBLE MATERIALS:** None  
**CONDITIONS OF REACTIVITY:** Non-reactive  
**HAZARDOUS DECOMPOSITION PRODUCTS:** None

### **TOXICOLOGICAL PROPERTIES**

#### **ROUTES OF ENTRY:**

**SKIN CONTACT:** None

**SKIN ABSORPTION:** None

**EYE:** None

**INHALATION:** Argon is defined as a simple asphyxiant. Oxygen level 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 1995-1996).

**INGESTION:** No

**ACUTE OVER EXPOSURE EFFECTS:** See Inhalation, above.

**CHRONIC OVER EXPOSURE EFFECTS:** None

**EXPOSURE LIMITS:** See Inhalation, above.

**IRRITANCY OF PRODUCT:** None

**SENSITIZATION TO MATERIAL:** None

**CARCINOGENICITY, REPRODUCTIVE EFFECTS:** None

**TERATOGENICITY, MUTAGENICITY:** None

**TOXICOLOGICALLY SYNERGISTIC PRODUCTS:** None

## **PREVENTIVE MEASURES**

**PERSONAL PROTECTIVE EQUIPMENT:** Safety goggles and safety shoes.

**SPECIFIC ENGINEERING CONTROLS:** Argon is noncorrosive and may be used with any common structural material.

**LEAK AND SPILL PROCEDURES:** EVACUATE ALL PERSONNEL FROM AFFECTED AREA.

Use appropriate protective equipment. If leak is on container or container valve, contact the closest MEGS location.

**WASTE DISPOSAL:** 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 MEGS for proper disposal. For emergency disposal, contact the closest MEGS location.

**HANDLING PROCEDURES AND EQUIPMENT:** USE ONLY IN WELL-VENTILATED AREAS.

Valve protection caps must remain in place unless container is secured with valve outlet piped to point of use. Do not drag, slide or roll cylinders. Use a suitable hand truck for cylinder movement. Use a pressure reducing regulator when connecting cylinders to lower pressure 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. Do not tamper with (valve) safety device. Close valve

after each use and when empty.

**STORAGE REQUIREMENTS:** 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 52°C. Cylinders must 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 from being stored for excessive periods of time.

**TDG CLASSIFICATION:** 2.2

**WHMIS CLASSIFICATION:** A

**SPECIAL SHIPPING INFORMATION:** Always secure cylinders in an upright position before transporting them. NEVER transport cylinders in trunks of vehicles, enclosed vans, truck cabs or in passenger compartments. Transport cylinders secured in open flatbed or in open pick-up type vehicles.

## **FIRST AID MEASURES**

**SPECIFIC FIRST AID PROCEDURES:** 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 assisted resuscitation and supplemental oxygen. Medical assistance should be sought immediately.

**EYE CONTACT:** Not applicable

**SKIN CONTACT:** Not applicable

## **PREPARATION INFORMATION**

**PREPARED BY:** Safety Department

**DATE PREPARED:** 09/01/1999

**LAST REVISION DATE:** 04/01/2008

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