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MSDS : Air Compressed

PRODUCT INFORMATION

PRODUCT: Air (Compressed)
TRADE NAME: Air (Compressed)
CHEMICAL NAME: Air
SYNONYMS: Compressed Air
FORMULA: Approx. 78% N₂, 21% O₂, 1% Ar, plus traces of CO₂ & rare gases
CHEMICAL FAMILY: Gas mixture
SUPPLIER'S NAME: MEGS Specialty Gases Inc.
SUPPLIER'S ADDRESS: 2675 De Miniac
Ville St-Laurent, Qc, H4S 1E5 Canada
EMERGENCY PHONE NUMBER: (514) 956-7503
MOLECULAR WEIGHT: 28.96
PRODUCT USE: Various
PRODUCT IDENTIFICATION UN 1002 NUMBER:

HAZARDOUS INGREDIENTS

CHEMICAL ID	CONCENTRATION	CAS #	LD(50)	LC(50)
Air	100%	Not applicable	None	None

PHYSICAL DATA

PHYSICAL STATE: Gas
APPEARANCE: Colorless gas
ODOR: Odorless
ODOR THRESHOLD: Not applicable
SPECIFIC GRAVITY (H₂O = 1): See Vapor Density (air = 1)
VAPOR PRESSURE: Not applicable (gas)
VAPOR DENSITY (air = 1): 1.0

EVAPORATION RATE: Not applicable (gas)
BOILING POINT: -194.4°C
FREEZING POINT: Bubble point @ 1 atm = -194.35°C
pH: Not applicable
GAS DENSITY: 1.225 kg/m³ @ 15°C, 101.3 kPa
COEFFICIENT OF WATER/OIL 15°C, Bunsen Coefficient = 0.0201
DISTRIBUTION:

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: Yes
INCOMPATIBLE MATERIALS: None
CONDITIONS OF REACTIVITY: None
HAZARDOUS DECOMPOSITION PRODUCTS: None

TOXICOLOGICAL PROPERTIES

ROUTES OF ENTRY:

SKIN CONTACT: None

SKIN ABSORPTION: None

EYE: None

INHALATION: Yes

INGESTION: None

ACUTE OVER EXPOSURE EFFECTS: Inhalation of air in a high pressure environment such as underwater diving, caissons or hyperbaric chambers can result in symptoms similar to over exposure to pure oxygen. These include tingling of fingers and toes, abnormal sensations, impaired coordination and confusion. Decompression sickness pains or "bends" are possible following rapid decompression.

CHRONIC OVER EXPOSURE EFFECTS: None

EXPOSURE LIMITS: Not applicable

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 or glasses and safety shoes.

SPECIFIC ENGINEERING CONTROLS: Dry air is noncorrosive and may be used with all materials of construction. Moisture causes metal oxides which are formed with air to be hydrated so that they increase in volume and lose their protective role (rust formation). Concentrations of SO₂, Cl₂, salt, etc. in the moisture enhances the rusting of metals in air.

LEAK AND SPILL PROCEDURES: Not applicable

WASTE DISPOSAL: Not applicable

HANDLING PROCEDURES AND EQUIPMENT: 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 piping or systems. Do not heat cylinder by any means to increase to 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.

STORAGE REQUIREMENTS: Protect cylinders from physical damage. Store in cool, dry, well-ventilated area of non combustible construction away from heavily trafficked areas and emergency exits. Do not allow the temperature where 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 being stored for excessive periods of time.

TDG CLASSIFICATION: 2.2

WHMIS CLASSIFICATION: A

SPECIAL SHIPPING INFORMATION: None

FIRST AID MEASURES

SPECIFIC FIRST AID PROCEDURES: Facilities or practices at which air is breathed in a high pressure environment should be prepared to deal with illnesses associated with decompression (Bends or Caisson Disease). Decompression equipment may be required.

INHALATION: Not applicable

EYE CONTACT: Not applicable

SKIN CONTACT: Not applicable

PREPARATION INFORMATION

PREPARED BY: Safety Department

DATE PREPARED: 01/01/99

LAST REVISION DATE: 04/01/2008

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