1. PRODUCT AND COMPANY INFORMATION

CHEMICAL NAME; CLASS: OCTAFLUOROTETRAHYDROFURAN
SYNONYMS: Furan, Octafluorotetrahydro-; Perfluorotetrahydrofuran
CHEMICAL FAMILY NAME: Perfluorocarbon
FORMULA: \( \text{C}_4\text{F}_8\text{O} \)

PRODUCT USE: Various Uses.

MANUFACTURED/SUPPLIED FOR:
ADDRESS: 2700 Post Oak Drive
Houston, TX  77056-8229
EMERGENCY PHONE: CHEMTREC: 1-800-424-9300
BUSINESS PHONE:
General MSDS Information 1-713/896-2896
Fax on Demand: 1-800/231-1366

2. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW: Octafluorotetrahydrofuran is a colorless, non-flammable, liquefied gas. The most significant health hazard associated with overexposure to this gas is the potential for overexposure to oxygen-deficient atmospheres (especially in confined spaces or other poorly ventilated environments); individuals in such atmospheres may be asphyxiated. This gas is not flammable; however, flame or high temperature impinging on a localized area of the cylinder of this gas mixture can cause the cylinder to burst or rupture without activating the cylinder’s relief devices. This gas is not reactive. Provide adequate fire protection during emergency response situations.
2. HAZARD IDENTIFICATION (Continued)

SYMPTOMS OF OVEREXPOSURE BY ROUTE OF EXPOSURE: The most significant route of overexposure for Octafluorotetrahydrofuran is by inhalation. The following paragraphs describe symptoms of exposure by route of exposure.

INHALATION: High concentrations of this gas can cause an oxygen-deficient environment. Individuals breathing such an atmosphere may experience symptoms which include headaches, ringing in ears, dizziness, drowsiness, unconsciousness, nausea, vomiting, and depression of all the senses. The skin of a victim of overexposure may have a blue color. Under some circumstances of overexposure, death may occur. The effects associated with various levels of oxygen are as follows:

<table>
<thead>
<tr>
<th>CONCENTRATION</th>
<th>SYMPTOMS OF EXPOSURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-16% Oxygen:</td>
<td>Breathing and pulse rate increased, muscular coordination slightly disturbed.</td>
</tr>
<tr>
<td>10-14% Oxygen:</td>
<td>Emotional upset, abnormal fatigue, disturbed respiration.</td>
</tr>
<tr>
<td>6-10% Oxygen:</td>
<td>Nausea and vomiting, collapse or loss of consciousness.</td>
</tr>
<tr>
<td>Below 6%</td>
<td>Convulsive movements, possible respiratory collapse, and death.</td>
</tr>
</tbody>
</table>

OTHER POTENTIAL HEALTH EFFECTS: Contact with liquid or rapidly expanding gases (which are released under high pressure) may cause frostbite. Symptoms of frostbite include change in skin color to white or grayish-yellow. The pain after such contact can quickly subside.

HEALTH EFFECTS OR RISKS FROM EXPOSURE: An Explanation in Lay Terms. Overexposure to Octafluorotetrahydrofuran may cause the following health effects:

ACUTE: The most significant hazard associated with this gas is inhalation of oxygen-deficient atmospheres. Symptoms of oxygen deficiency include respiratory difficulty, ringing in ears, headaches, dizziness, indigestion, nausea, and, at high concentrations, unconsciousness or death may occur. Contact with liquid or rapidly expanding gases (which are released under high pressure) may cause frostbite.

CHRONIC: Chronic exposure to oxygen-deficient atmospheres (below 19.5% oxygen in air) may affect the heart and nervous system.

TARGET ORGANS: ACUTE: Respiratory system. CHRONIC: Heart, central nervous system.

3. COMPOSITION and INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>CAS #</th>
<th>mole %</th>
<th>EXPOSURE LIMITS IN AIR</th>
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</thead>
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<tr>
<td></td>
<td></td>
<td></td>
<td>ACGIH-TLV</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>TWA</td>
</tr>
<tr>
<td>Octafluorotetrahydrofuran</td>
<td>773-14-8</td>
<td>100%</td>
<td>There are no specific exposure limits for Octafluorotetrahydrofuran. Octafluorotetrahydrofuran is an asphyxiant. Oxygen levels should be maintained above 19.5%.</td>
</tr>
</tbody>
</table>

This material is classified as hazardous under OSHA regulations in the United States and the WHMIS in Canada.

NE = Not Established. See Section 16 for Definitions of Terms Used.

NOTE: ALL WHMIS required information is included in appropriate sections based on the ANSI Z400.1-2004 format. This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

4. FIRST-AID MEASURES

RESCUERS SHOULD NOT ATTEMPT TO RETRIEVE VICTIMS OF EXPOSURE TO THIS GAS WITHOUT ADEQUATE PERSONAL PROTECTIVE EQUIPMENT. At a minimum, Self-Contained Breathing Apparatus should be worn.

Remove victim(s) to a safe location. Trained personnel should administer supplemental oxygen and/or cardiopulmonary resuscitation, if necessary. Victim(s) must be taken for medical attention. Rescuers should be taken for medical attention, if necessary. Take copy of label and MSDS to physician or other health professional with victim(s).

In case of frostbite, place the frostbitten part in warm water. DO NOT USE HOT WATER. If warm water is not available, or is impractical to use, wrap the affected parts gently in blankets. Alternatively, if the fingers or hands are frostbitten, place the affected area of the body in the armpit. Encourage victim to gently exercise the affected part while being warmed. Seek immediate medical attention.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.

RECOMMENDATIONS TO PHYSICIANS: Treat symptoms and reduce over-exposure.
5. FIRE-FIGHTING MEASURES

FLASH POINT: NON-FLAMMABLE GAS
AUTOIGNITION TEMPERATURE: Not determined.
FLAMMABLE LIMITS (in air by volume, %):
   Lower (LEL): Not determined.
   Upper (UEL): Not determined.
FIRE EXTINGUISHING MATERIALS: Extinguish fires of this gas mixture by shutting-off the source of the gas. Use water spray to cool fire-exposed containers, structures, and equipment.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Although this gas is non-flammable, it can present health hazards to firefighters. When involved in a fire, this material may decompose and produce toxic gases (e.g., carbon monoxide and carbon dioxide and oxides of fluorine).
Explosion Sensitivity to Static Discharge: Not sensitive.
SPECIAL FIRE-FIGHTING PROCEDURES: Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment.

6. ACCIDENTAL RELEASE MEASURES

LEAK RESPONSE: Evacuate immediate area. Uncontrolled releases should be responded to by trained personnel using pre-planned procedures. Proper protective equipment should be used. In case of a leak, clear the affected area, protect people, and respond with trained personnel. Minimum Personal Protective Equipment should be:
   Level B: Self-Contained Breathing Apparatus. Locate and seal the source of the leaking gas. Allow the gas to dissipate. Monitor the surrounding area for oxygen levels. The atmosphere must have at least 19.5 percent oxygen before personnel can be allowed in the area without Self-Contained Breathing Apparatus. If leaking incidentally from the cylinder or its valve, contact your supplier.

7. HANDLING AND STORAGE

WORK PRACTICES AND HYGIENE PRACTICES: Be aware of any signs of dizziness or fatigue; exposures to fatal concentrations of this gas could occur without any significant warning symptoms, due to oxygen deficiency.
STORAGE AND HANDLING PRACTICES: Cylinders should be stored upright and be firmly secured to prevent falling or being knocked-over. Cylinders can be stored in the open, but in such cases, should be protected against extremes of weather and from the dampness of the ground to prevent rusting. Cylinders should be stored in dry, well-ventilated areas away from sources of heat, ignition and direct sunlight. Keep storage area clear of materials which can burn. Do not allow area where cylinders are stored to exceed 52°C (125°F). Store containers away from heavily trafficked areas and emergency exits. Store away from process and production areas, away from elevators, building and room exits or main aisles leading to exits. Protect cylinders against physical damage. Use a check valve or other protective device in the discharge line to prevent hazardous backflow. Never tamper with pressure relief valves and cylinders. Keep the smallest amount necessary on-site at any one time. Full and empty cylinders should be segregated. Use a first-in, first-out inventory systems to prevent full containers from being stored for long periods of time.
SPECIAL PRECAUTIONS FOR HANDLING GAS CYLINDERS: Compressed gases can present significant safety hazards. The following rules are applicable to work situations in which cylinders are being used.
Before Use: Move cylinders with a suitable hand-truck. Do not drag, slide or roll cylinders. Do not drop cylinders or permit them to strike each other. Secure cylinders firmly. Leave the valve protection cap (where provided) in-place until cylinder is ready for use.
During Use: Use designated CGA fittings and other support equipment. Do not use adapters. Do not heat cylinder by any means to increase the discharge rate of the product from the cylinder. Do not use oils or grease on gas-handling fittings or equipment. Immediately contact the supplier if there are any difficulties associated with operating cylinder valve. Never insert an object (e.g., wrench, screwdriver, pry bar, etc.) into valve cap openings. Doing so may damage valve, causing a leak to occur. Use an adjustable strap wrench to remove over-tight or rusted caps. Never strike an arc on a compressed gas cylinder or make a cylinder part of an electric circuit.
After Use: Close main cylinder valve. Replace valve protection cap. Mark empty cylinders “EMPTY”.
NOTE: Use only DOT or ASME code containers designed for gas storage. Close valve after each use and when empty. Cylinders must not be recharged except by or with the consent of owner. For welding and brazing operations, refer to ANSI Z-49.1 “Safety in Welding and Cutting” and OSHA safety regulations for welding, cutting, and brazing (29 CFR 1910.252). In addition, see the National Fire Protection Association (NFPA) publication 51 Oxygen Fuel Gas Welding and Cutting.
7. HANDLING AND STORAGE (Continued)

STANDARD VALVE CONNECTIONS FOR U.S. AND CANADA: Use the proper CGA connections, **DO NOT** use adapters:

- **THREADED:** 660
- **PIN-INDEXED YOKE:** N/A
- **ULTRA HIGH INTEGRITY:** 716

**PROTECTIVE PRACTICES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT:** Follow practices indicated in Section 6 (Accidental Release Measures). Make certain application equipment is locked and tagged-out safely. Always use product in areas where adequate ventilation is provided.

8. EXPOSURE CONTROLS - PERSONAL PROTECTION

**VENTILATION AND ENGINEERING CONTROLS:** Use with adequate ventilation. Local exhaust ventilation is preferred, because it prevents chemical dispersion into the work place by eliminating it at its source. If appropriate, install automatic monitoring equipment to detect the level of oxygen.

**RESPIRATORY PROTECTION:** Maintain oxygen levels above 19.5% in the workplace. Use supplied air respiratory protection if oxygen levels are below 19.5% or during emergency response to a release of this gas. If respiratory protection is needed, use only protection authorized in the U.S. Federal OSHA Standard (29 CFR 1910.134), applicable U.S. State regulations, or the Canadian CSA Standard Z94.4-93. Oxygen levels below 19.5% are considered IDLH by OSHA. In such atmospheres, use of a full-facepiece pressure/demand SCBA or a full facepiece, supplied air respirator with auxiliary self-contained air supply is required under OSHAs Respiratory Protection Standard (1910.134-1998).

**EYE PROTECTION:** Safety glasses. If necessary, refer to U.S. OSHA 29 CFR 1910.133, or Canadian Standards.

**HAND PROTECTION:** Wear gloves when handling cylinders of this gas. Otherwise, wear glove protection appropriate to the specific operation for which this gas is used. If necessary, refer to U.S. OSHA 29 CFR 1910.138 or appropriate Standards of Canada.

**BODY PROTECTION:** Use body protection appropriate for task. Cotton clothing is recommended to prevent static electric build up. Safety shoes are recommended when handling cylinders. Safety shoes are recommended when handling cylinders. If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or where employee’s feet may be exposed to electrical hazards, use foot protection, as described in U.S. OSHA 29 CFR.

9. PHYSICAL and CHEMICAL PROPERTIES

**VAPOR PRESSURE:** 29.5 PSIA @ 20°C

**BOILING POINT:** 1-2°C (34-36°F)

**SOLUBILITY IN WATER:** Not available.

**ODOR THRESHOLD:** Unknown.

**EVAPORATION RATE:** Not applicable.

**CRITICAL TEMPERATURE:** Not determined.

**SPECIFIC GRAVITY (air = 1):** Not determined.

**GAS DENSITY:** Not determined.

**pH:** Not applicable.

**FREEZING/MELTING POINT:** Not available.

**MOLECULAR WEIGHT:** 216.03

**SPECIFIC VOLUME (ft³/lb):** Not available.

**EXPANSION RATIO:** Not applicable.

**CRITICAL PRESSURE:** Not available.

**LIQUID DENSITY:** Not available.

**COEFFICIENT WATER/OIL DISTRIBUTION:** Not available.

**APPEARANCE AND COLOR:** Octafluorotetrahydrofuran is a colorless, liquefied gas.

**HOW TO DETECT THIS SUBSTANCE (warning properties):** In terms of leak detection, fittings and joints can be painted with a soap solution to detect leaks, which will be indicated by a bubble formation.

10. STABILITY and REACTIVITY

**STABILITY:** Octafluorotetrahydrofuran is stable under conditions of normal temperature and pressure.

**DECOMPOSITION PRODUCTS:** If heated to decomposition, this gas can decompose to form oxides of carbon and oxides of fluorine.

**MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE:** Octafluorotetrahydrofuran is incompatible with oxidizers.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**CONDITIONS TO AVOID:** Contact with incompatible materials and to heat, sparks and other sources of ignition.

11. TOXICOLOGICAL INFORMATION

**TOXICITY DATA:** Currently, there are no toxicological data available for Octafluorotetrahydrofuran:

**SUSPECTED CANCER AGENT:** Octafluorotetrahydrofuran is not found on the following lists: FEDERAL OSHA Z LIST, NTP, CAL/OSHA, and therefore is not considered to be, nor suspected to be a cancer-causing agent by these agencies.

**IRRITANCY OF PRODUCT:** Octafluorotetrahydrofuran is not irritating; however, contact with rapidly expanding gases can cause frostbite to exposed tissue.
11. TOXICOLOGICAL INFORMATION (Continued)

SENSITIZATION TO THE PRODUCT: Octafluorotetrahydrofuran is not known to cause skin or respiratory sensitization in humans.

REPRODUCTIVE TOXICITY INFORMATION: Listed below is information concerning the effects of this product on the human reproductive system.

- Mutagenicity: No mutagenicity effects have been described for Octafluorotetrahydrofuran.
- Embryotoxicity: No embryotoxic effects have been described for Octafluorotetrahydrofuran.
- Teratogenicity: No teratogenicity effects have been described for Octafluorotetrahydrofuran.
- Reproductive Toxicity: No reproductive toxicity effects have been described for Octafluorotetrahydrofuran.

A mutagen is a chemical which causes permanent changes to genetic material (DNA) such that the changes will propagate through generation lines. An embryotoxin is a chemical which causes damage to a developing embryo (i.e. within the first eight weeks of pregnancy in humans), but the damage does not propagate across generational lines. A teratogen is a chemical which causes damage to a developing fetus, but the damage does not propagate across generational lines. A reproductive toxin is any substance which interferes in any way with the reproductive process.

BIOLOGICAL EXPOSURE INDICES (BEIs): Currently, no Biological Exposure Indices (BEIs) have been determined for Octafluorotetrahydrofuran.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL STABILITY: This gas will be dissipated rapidly in well-ventilated areas. Octafluorotetrahydrofuran is a perfluorocarbon (PFC) compound. Perfluorocarbon compounds have been implicated as having a long atmospheric lifetime and high global warming potential. All work practice must be directed at eliminating environmental contamination.

EFFECT OF MATERIAL ON PLANTS or ANIMALS: No adverse effect is anticipated to occur to plant-life, except for frost produced in the presence of rapidly expanding gases.

EFFECT OF CHEMICAL ON AQUATIC LIFE: No evidence is currently available on the effects of Octafluorotetrahydrofuran on aquatic life.

13. DISPOSAL CONSIDERATIONS

PREPARING WASTES FOR DISPOSAL: Waste disposal must be in accordance with appropriate Federal, State, and local regulations. Return cylinders with any residual product to Air Liquide. Do not dispose of locally.

14. TRANSPORTATION INFORMATION

THIS COMPRESSED GAS IS HAZARDOUS AS DEFINED BY 49 CFR 172.101 BY THE U.S. DEPARTMENT OF TRANSPORTATION.

PROPER SHIPPING NAME: Compressed gas, n.o.s. (Octafluorotetrahydrofuran)
HAZARD CLASS NUMBER and DESCRIPTION: 2.2 (Non-Flammable Gas)
UN IDENTIFICATION NUMBER: UN 1956
PACKING GROUP: Not Applicable
DOT LABEL(S) REQUIRED: Class 2.2 (Non-Flammable Gas)
NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (2000): 115
MARINE POLLUTANT: Octafluorotetrahydrofuran is not classified by the DOT as a Marine Pollutant (as defined by 49 CFR 172.101, Appendix B).

SPECIAL SHIPPING INFORMATION: Cylinders should be transported in a secure position, in a well-ventilation vehicle. The transportation of compressed gas cylinders in automobiles or in closed-body vehicles present serious safety hazards and should be discouraged.

NOTE: Shipment of compressed gas cylinders which have not been filled with the owners consent is a violation of Federal law (49 CFR, Part 173.301 (b).

TRANSPORT CANADA TRANSPORTATION OF DANGEROUS GOODS REGULATIONS: This gas mixture is considered as Dangerous Goods, per regulations of Transport Canada. The use of the above U.S. DOT information from the U.S. 49 CFR regulations is allowed for shipments that originate in the U.S. For shipments via ground vehicle or rail that originate in Canada, the following information is applicable.

PROPER SHIPPING NAME: Compressed gases, n.o.s. (Octafluorotetrahydrofuran)
HAZARD CLASS NUMBER and DESCRIPTION: 2.2 (Non-Flammable Gas)
UN IDENTIFICATION NUMBER: UN 1956
PACKING GROUP: Not Applicable
HAZARD LABEL(S) REQUIRED: Class 2.2 (Non-Flammable Gas)
SPECIAL PROVISIONS: None
EXPLOSIVE LIMIT & LIMITED QUANTITY INDEX: 0.12
ERAP INDEX: None
PASSENGER CARRYING SHIP INDEX: None
PASSENGER CARRYING ROAD OR RAIL VEHICLE INDEX: 75
15. REGULATORY INFORMATION

ADDITIONAL U.S. REGULATIONS:
U.S. SARA REPORTING REQUIREMENTS: Octafluorotetrahydrofuran is not subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act.
U.S. SARA THRESHOLD PLANNING QUANTITY: There are no specific Threshold Planning Quantities for this material. The default Federal MSDS submission and inventory requirement filing threshold of 10,000 lb (4,540 kg) may apply, per 40 CFR 370.20.
U.S. CERCLA REPORTABLE QUANTITY (RQ): Not applicable.
U.S. TSCA INVENTORY STATUS: Octafluorotetrahydrofuran is listed on the TSCA Inventory.
OTHER U.S. FEDERAL REGULATIONS:
• Octafluorotetrahydrofuran is not subject to the reporting requirements of Section 112(r) of the Clean Air Act.
• Octafluorotetrahydrofuran is not listed as a Class I or Class II ozone depleting chemical (40 CFR part 82); however, Octafluorotetrahydrofuran is listed as a compound with Global Warming Potential under 40 CFR, Part 82.
• Octafluorotetrahydrofuran is not currently subject to requirements of CFR 29 1910.1000.
• Depending on specific operations involving the use of this gas, the regulations of the Process Safety Management of Highly Hazardous Chemicals may be applicable (29 CFR 1910.119).
STATE REGULATORY INFORMATION: Octafluorotetrahydrofuran is covered under specific State regulations, as denoted below:
Alaska - Designated Toxic and Hazardous Substances: No.
California - Permissible Exposure Limits for Chemical Contaminants: No.
Florida - Substance List: No.
Illinois - Toxic Substance List: No.
Kansas - Section 302/313 List: No.
Massachusetts - Substance List: No.
Minnesota - List of Hazardous Substances: No.
Missouri - Employer Information/Toxic Substance List: No.
New Jersey - Right to Know Hazardous Substance List: No.
North Dakota - List of Hazardous Chemicals, Reportable Quantities: No.
Pennsylvania - Hazardous Substance List: No.
Rhode Island - Hazardous Substance List: No.
Texas - Hazardous Substance List: No.
West Virginia - Hazardous Substance List: No.
Wisconsin - Toxic and Hazardous Substances: No.
CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): Octafluorotetrahydrofuran is not on the California Proposition 65 lists.
OTHER CANADIAN REGULATIONS:
CANADIAN WHMIS REGULATIONS: Octafluorotetrahydrofuran is categorized as a Controlled Product, Hazard Classes A, and D2B, as per the Controlled Product Regulations.
CANADIAN DSL INVENTORY STATUS: Octafluorotetrahydrofuran is listed on the Canadian DSL Inventory.
CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS: Octafluorotetrahydrofuran is not on the CEPA Priorities Substances Lists.

16. OTHER INFORMATION

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<thead>
<tr>
<th>NFPA RATING</th>
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<tbody>
<tr>
<td>FLAMMABILITY</td>
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<tr>
<td>HEALTH</td>
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<tr>
<td>REACTIVITY</td>
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<tr>
<td>OTHER</td>
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</tbody>
</table>

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM

<table>
<thead>
<tr>
<th>HEALTH HAZARD (BLUE)</th>
<th>1</th>
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</thead>
<tbody>
<tr>
<td>FLAMMABILITY HAZARD (RED)</td>
<td>0</td>
</tr>
<tr>
<td>PHYSICAL HAZARD (YELLOW)</td>
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</tr>
</tbody>
</table>

PROTECTIVE EQUIPMENT

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<tr>
<th>EYES</th>
<th>RESPIRATORY</th>
<th>HANDS</th>
<th>BODY</th>
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See Section 8

For Routine Industrial Use and Handling Applications
16. OTHER INFORMATION (Continued)

MIXTURES: When two or more gases or liquefied gases are mixed, their hazardous properties may combine to create additional, unexpected hazards. Obtain and evaluate the safety information for each component before you produce the mixture. Consult an Industrial Hygienist or other trained person when you make your safety evaluation of the end product. Remember, gases and liquids have properties which can cause serious injury or death.

Further information can be found in the following pamphlets published by: Compressed Gas Association Inc. (CGA), 4221 Walney Road 5th floor, Chantilly, VA 20151-2923. Telephone: (703) 788-2700.
P-1 “Safe Handling of Compressed Gases in Containers”
AV-1 “Safe Handling and Storage of Compressed Gases”
“Handbook of Compressed Gases”

PREPARED BY: CHEMICAL SAFETY ASSOCIATES, Inc.
PO Box 3519, La Mesa, CA 91944-3519
619/670-0609
Fax on Demand: 1-800/231-1366

This Material Safety Data Sheet is offered pursuant to OSHA’s Hazard Communication Standard, 29 CFR, 1910.1200. Other government regulations must be reviewed for applicability to this product. To the best of Air Liquide’s knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either express or implied, are provided. The information contained herein relates only to this specific product. If this product is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.