SECTION 1: Identification

1.1. Identification

Product form: Mixture

Formula: Non-flammable, Non-oxidizing gas mixture containing one or more of the following components: Propylene Oxide, Ethylene Oxide, Oxygen, Nitrogen.

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture: Calibration / Reference

Use of the substance/mixture: Industrial use. Use as directed.

1.3. Details of the supplier of the safety data sheet

Industrial Scientific Corporation (AU)
Imported By: Scientific Gas Australia Pty Ltd.
Unit 3, 1 Perry Road
Matraville NSW, 2036 - Australia
T PH 1300 880 531

1.4. Emergency telephone number

Emergency number: Emergency Phone: International call (outside USA): +1 813 248 0585; Emergency Phone: International call (outside USA): +1 813 248 058; Australian Fire Brigade: 000; Australian Poison Information Centre: 13 11 26

CHEMTREC: USA 1-800-424-9300, International 001-703-527-3887 (Collect calls accepted, contract 17729)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Compressed gas H280 - CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED

Full text of H-statements: see section 16

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US): GHS04

Signal word (GHS-US): WARNING

Hazard statements (GHS-US): H280 - CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED

Precautionary statements (GHS-US): P403 - Use and store only outdoors or in a well-ventilated place. CGA-PG02 - Protect from sunlight when ambient temperature exceeds 52°C (125°F). CGA-PG12 - Do not open valve until connected to equipment prepared for use. CGA-PG10 - Use only with equipment rated for cylinder pressure. CGA-PG21 - Open valve slowly. CGA-PG06 - Close valve after each use and when empty. CGA-PG05 - Use a back flow preventive device in the piping. CGA-PG11 - Never put cylinders into unventilated areas of passenger vehicles. CGA-PG27 - Read and follow the Safety Data Sheet (SDS) before use.

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture
**SECTION 4: First aid measures**

4.1. **Description of first aid measures**

First-aid measures after inhalation: Immediately remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, qualified personnel may give oxygen. Call a physician.

First-aid measures after skin contact: Adverse effects not expected from this product.

First-aid measures after eye contact: Immediately flush eyes thoroughly with water for at least 15 minutes. Hold the eyelids open and away from the eyeballs to ensure that all surfaces are flushed thoroughly. Contact an ophthalmologist immediately.

First-aid measures after ingestion: Ingestion is not considered a potential route of exposure.

4.2. **Most important symptoms and effects, both acute and delayed**

No additional information available

4.3. **Indication of any immediate medical attention and special treatment needed**

None.

**SECTION 5: Firefighting measures**

5.1. **Extinguishing media**

Suitable extinguishing media: Use extinguishing media appropriate for surrounding fire.

5.2. **Special hazards arising from the substance or mixture**

Reactivity: No reactivity hazard other than the effects described in sub-sections below.

5.3. **Advice for firefighters**

Firefighting instructions: Evacuate all personnel from the danger area. Use self-contained breathing apparatus (SCBA) and protective clothing. Immediately cool containers with water from maximum distance. Stop flow of gas if safe to do so, while continuing cooling water spray. Remove ignition sources if safe to do so. Remove containers from area of fire if safe to do so. On-site fire brigades must comply with OSHA 29 CFR 1910.156 and applicable standards under 29 CFR 1910 Subpart L—Fire Protection.

Special protective equipment for fire fighters: Standard protective clothing and equipment (Self Contained Breathing Apparatus) for fire fighters.

**SECTION 6: Accidental release measures**

6.1. **Personal precautions, protective equipment and emergency procedures**

6.1.1. **For non-emergency personnel**

No additional information available

6.1.2. **For emergency responders**

No additional information available

6.2. **Environmental precautions**

Prevent waste from contaminating the surrounding environment. Prevent soil and water pollution. Dispose of contents/container in accordance with local/regional/national/international regulations. Contact supplier for any special requirements.

6.3. **Methods and material for containment and cleaning up**

No additional information available

6.4. **Reference to other sections**

See also sections 8 and 13.
SECTION 7: Handling and storage

7.1. Precautions for safe handling
Precautions for safe handling: Wear leather safety gloves and safety shoes when handling cylinders. Protect cylinders from physical damage; do not drag, roll, slide or drop. While moving cylinder, always keep in place removable valve cover. Never attempt to lift a cylinder by its cap; the cap is intended solely to protect the valve. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Never insert an object (e.g., wrench, screwdriver, pry bar) into cap openings; doing so may damage the valve and cause a leak. Use an adjustable strap wrench to remove over-tight or rusted caps. Slowly open the valve. If the valve is hard to open, discontinue use and contact your supplier. Close the container valve after each use; keep closed even when empty. Never apply flame or localized heat directly to any part of the container. High temperatures may damage the container and could cause the pressure relief device to fail prematurely, venting the container contents. For other precautions in using this product, see section 16.

7.2. Conditions for safe storage, including any incompatibilities
Storage conditions: Store in a cool, well-ventilated place. Store and use with adequate ventilation. Store only where temperature will not exceed 125°F (52°C). Firmly secure containers upright to keep them from falling or being knocked over. Install valve protection cap, if provided, firmly in place by hand. Store full and empty containers separately. Use a first-in, first-out inventory system to prevent storing full containers for long periods. OTHER PRECAUTIONS FOR HANDLEING, STORAGE, AND USE: When handling product under pressure, use piping and equipment adequately designed to withstand the pressures to be encountered. Never work on a pressurized system. Use a back flow preventive device in the piping. Gases can cause rapid suffocation because of oxygen deficiency; store and use with adequate ventilation. If a leak occurs, close the container valve and blow down the system in a safe and environmentally correct manner in compliance with all international, federal/national, state/provincial, and local laws; then repair the leak. Never place a container where it may become part of an electrical circuit.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th></th>
<th>ACGIH TLV-TWA (ppm)</th>
<th>OSHA PEL (TWA) (mg/m³)</th>
<th>OSHA PEL (TWA) (ppm)</th>
<th>OSHA PEL (STEL) (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propylene oxide (75-56-9)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACGIH</td>
<td>2 ppm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OSHA</td>
<td>240 mg/m³</td>
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<tr>
<td>OSHA</td>
<td>100 ppm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethylene oxide (75-21-8)</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>ACGIH</td>
<td>1 ppm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OSHA</td>
<td>1 ppm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OSHA</td>
<td>5 ppm (see 29 CFR 1910.1047)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

8.2. Exposure controls
Appropriate engineering controls: Provide adequate general and local exhaust ventilation. Ensure exposure is below occupational exposure limits (where available).

Personal protective equipment: Gloves. Safety glasses.

Eye protection: Wear safety glasses when handling cylinders; vapor-proof goggles and a face shield during cylinder changeout or whenever contact with product is possible. Select eye protection in accordance with OSHA 29 CFR 1910.133.

Skin and body protection: Wear metatarsal shoes for container handling. Wear metatarsal shoes and work gloves for cylinder handling, and protective clothing where needed. Wear appropriate chemical gloves during cylinder changeout or wherever contact with product is possible. Select per OSHA 29 CFR 1910.132, 1910.136, and 1910.138.
SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical state</th>
<th>Gas</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
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<tr>
<td>Odour</td>
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</tr>
<tr>
<td>Odour threshold</td>
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<tr>
<td>pH</td>
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</tr>
<tr>
<td>Melting point</td>
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</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative evaporation rate (butylacetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative evaporation rate (ether=1)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>None.</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapour density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Solubility</td>
<td>Water: No data available</td>
</tr>
<tr>
<td>Log Pow</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No reactivity hazard other than the effects described in sub-sections below.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None.

10.4. Conditions to avoid

None.

10.5. Incompatible materials

None.

10.6. Hazardous decomposition products

None.
SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity: Not classified

**Propylene oxide (75-56-9)**
- LD50 oral rat: 520 mg/kg
- LD50 dermal rabbit: 1244 mg/kg
- LC50 inhalation rat (mg/l): 0.948 mg/l/4h
- LC50 inhalation rat (ppm): 7200 ppm/1h
- ATE US (oral): 520.000 mg/kg bodyweight
- ATE US (dermal): 1244.000 mg/kg bodyweight
- ATE US (gases): 3600.000 ppmv/4h
- ATE US (vapours): 0.948 mg/l/4h
- ATE US (dust, mist): 0.948 mg/l/4h

**Ethylene oxide (75-21-8)**
- LD50 oral rat: 72 mg/kg
- LC50 inhalation rat (ppm): 1450 ppm/4h
- ATE US (oral): 72.000 mg/kg bodyweight
- ATE US (gases): 1450.000 ppmv/4h

Skin corrosion/irritation: Not classified
pH: Not applicable.

Serious eye damage/irritation: Not classified
pH: Not applicable.

Respiratory or skin sensitisation: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity:
- Propylene oxide (75-56-9): IARC group 2B - Possibly carcinogenic to humans
- National Toxicology Program (NTP) Status: 1 - Evidence of Carcinogenicity, 3 - Reasonably anticipated to be Human Carcinogen
- In OSHA Hazard Communication Carcinogen list: Yes

- Ethylene oxide (75-21-8): IARC group 1 - Carcinogenic to humans
- National Toxicology Program (NTP) Status: 1 - Evidence of Carcinogenicity, 2 - Known Human Carcinogens
- In OSHA Hazard Communication Carcinogen list: Yes
- In OSHA Specifically Regulated Carcinogen list: Yes

Reproductive toxicity: Not classified
Specific target organ toxicity (single exposure): Not classified
Specific target organ toxicity (repeated exposure): Not classified

Aspiration hazard: Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general: No known ecological damage caused by this product.

**Propylene oxide (75-56-9)**
- LC50 fish 1: 215 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
- EC50 Daphnia 1: 350 mg/l (Exposure time: 48 h - Species: Daphnia magna)
PTG-4020
Safety Data Sheet

## 12.2. Persistence and degradability

<table>
<thead>
<tr>
<th>Substance</th>
<th>Persistence and degradability</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ethylene oxide (75-21-8)</strong></td>
<td>No ecological damage caused by this product.</td>
</tr>
<tr>
<td><strong>Oxygen (7782-44-7)</strong></td>
<td>No ecological damage caused by this product.</td>
</tr>
<tr>
<td><strong>Nitrogen (7727-37-9)</strong></td>
<td>No ecological damage caused by this product.</td>
</tr>
</tbody>
</table>

## 12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Substance</th>
<th>Log Pow</th>
<th>Log Kow</th>
<th>Bioaccumulative potential</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ethylene oxide (75-21-8)</strong></td>
<td>-0.3</td>
<td>Not applicable.</td>
<td>Not expected to bioaccumulate due to the low log Kow (log Kow &lt; 4). Refer to section 9.</td>
</tr>
<tr>
<td><strong>Oxygen (7782-44-7)</strong></td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>No ecological damage caused by this product.</td>
</tr>
<tr>
<td><strong>Nitrogen (7727-37-9)</strong></td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>No ecological damage caused by this product.</td>
</tr>
</tbody>
</table>

## 12.4. Mobility in soil

<table>
<thead>
<tr>
<th>Substance</th>
<th>Mobility in soil</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ethylene oxide (75-21-8)</strong></td>
<td>No data available.</td>
</tr>
<tr>
<td><strong>Oxygen (7782-44-7)</strong></td>
<td>No data available.</td>
</tr>
<tr>
<td><strong>Nitrogen (7727-37-9)</strong></td>
<td>No data available.</td>
</tr>
</tbody>
</table>

## 12.5. Other adverse effects

| Effect on ozone layer    | None. |
| Effect on the global warming | No known ecological damage caused by this product. |

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations: Do not attempt to dispose of residual or unused quantities. Return container to supplier.
**SECTION 14: Transport information**

**Department of Transportation (DOT)**
In accordance with DOT

Transport document description : UN1956 Compressed gas, n.o.s., 2.2

UN-No.(DOT) : UN1956

Proper Shipping Name (DOT) : Compressed gas, n.o.s.

Transport hazard class(es) (DOT) : 2.2 - Class 2.2 - Non-flammable compressed gas 49 CFR 173.115

Hazard labels (DOT) : 2.2 - Non-flammable gas

DOT Packaging Non Bulk (49 CFR 173.xxx) : 302:305

DOT Packaging Bulk (49 CFR 173.xxx) : 314:315

DOT Symbols : G - Identifies proper shipping name (PSN) requiring the addition of technical name(s) in parentheses following the PSN.

DOT Packaging Exceptions (49 CFR 173.xxx) : 306;307

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 172.101 HMT, Column 9a) : 75 kg

DOT Quantity Limitations Cargo aircraft only (49 CFR 172.101 HMT, Column 9b) : 150 kg

DOT Vessel Stowage Location : A - The material may be stowed “on deck” or “under deck” on a cargo vessel and on a passenger vessel.

Emergency Response Guide (ERG) Number : 126

Other information : No supplementary information available.

Special transport precautions : Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers:
- Ensure there is adequate ventilation. - Ensure that containers are firmly secured. - Ensure cylinder valve is closed and not leaking. - Ensure valve outlet cap nut or plug (where provided) is correctly fitted. - Ensure valve protection device (where provided) is correctly fitted.

**TDG**

Transport document description : UN1956 Compressed Gas, n.o.s., 2.2

UN-No. (TDG) : UN1956

TDG Proper Shipping Name : Compressed Gas, n.o.s.

TDG Primary Hazard Classes : 2.2 - Class 2.2 - Non-Flammable, Non-Toxic Gas.

**Transport by sea**

UN-No. (IMDG) : 1956

Proper Shipping Name (IMDG) : COMPRESSED GAS, N.O.S.

Class (IMDG) : 2.2 - Non-flammable, non-toxic gases

Limited quantities (IMDG) : 120ml

EmS-No. (1) : F-C

MFAG-No : 620

EmS-No. (2) : S-V

**Air transport**

UN-No. (IATA) : 1956

Proper Shipping Name (IATA) : COMPRESSED GAS, N.O.S.

Class (IATA) : 2

Instruction "cargo" (ICAO) : 200

Instruction "passenger" (ICAO) : 200

Instruction "passenger" - Limited quantities (ICAO) : FORBIDDEN
SECTION 15: Regulatory information

15.1. US Federal regulations

**Propylene oxide (75-56-9)**
- Listed on the United States TSCA (Toxic Substances Control Act) inventory
- Listed on the United States SARA Section 302
- Subject to reporting requirements of United States SARA Section 313
- **EPA TSCA Regulatory Flag**: T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.
- **SARA Section 302 Threshold Planning Quantity (TPQ)**: 10000
- **SARA Section 313 - Emission Reporting**: 0.1 %

**Ethylene oxide (75-21-8)**
- Listed on the United States TSCA (Toxic Substances Control Act) inventory
- Listed on the United States SARA Section 302
- Subject to reporting requirements of United States SARA Section 313
- **RQ (Reportable quantity, section 304 of EPA's List of Lists)**: 10 lb
- **SARA Section 302 Threshold Planning Quantity (TPQ)**: 1000
- **SARA Section 313 - Emission Reporting**: 0.1 %

**Oxygen (7782-44-7)**
- Listed on the United States TSCA (Toxic Substances Control Act) inventory

**Nitrogen (7727-37-9)**
- Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

**CANADA**

**Propylene oxide (75-56-9)**
- Listed on the Canadian DSL (Domestic Substances List)
- **WHMIS Classification**: Class B Division 2 - Flammable Liquid
  - Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects
  - Class D Division 2 Subdivision A - Very toxic material causing other toxic effects
  - Class D Division 2 Subdivision B - Toxic material causing other toxic effects

**Ethylene oxide (75-21-8)**
- Listed on the Canadian DSL (Domestic Substances List)
- **WHMIS Classification**: Class A - Compressed Gas
  - Class B Division 1 - Flammable Gas
  - Class D Division 1 Subdivision A - Very toxic material causing immediate and serious toxic effects
  - Class D Division 2 Subdivision A - Very toxic material causing other toxic effects
  - Class E - Corrosive Material
  - Class F - Dangerously Reactive Material

**Oxygen (7782-44-7)**
- Listed on the Canadian DSL (Domestic Substances List)
- **WHMIS Classification**: Class A - Compressed Gas
  - Class C - Oxidizing Material

**Nitrogen (7727-37-9)**
- Listed on the Canadian DSL (Domestic Substances List)
- **WHMIS Classification**: Class A - Compressed Gas

**EU-Regulations**
- No additional information available

National regulations
## 15.3. US State regulations

### Propylene oxide (75-56-9)

<table>
<thead>
<tr>
<th>U.S. - California - Proposition 65 - Carcinogens List</th>
<th>U.S. - California - Proposition 65 - Developmental Toxicity</th>
<th>U.S. - California - Proposition 65 - Reproductive Toxicity - Female</th>
<th>U.S. - California - Proposition 65 - Reproductive Toxicity - Male</th>
<th>Non-significant risk level (NSRL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### Ethylene oxide (75-21-8)

<table>
<thead>
<tr>
<th>U.S. - California - Proposition 65 - Carcinogens List</th>
<th>U.S. - California - Proposition 65 - Developmental Toxicity</th>
<th>U.S. - California - Proposition 65 - Reproductive Toxicity - Female</th>
<th>U.S. - California - Proposition 65 - Reproductive Toxicity - Male</th>
<th>Non-significant risk level (NSRL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### Propylene oxide (75-56-9)

- U.S. - Massachusetts - Right To Know List
- U.S. - New Jersey - Right to Know Hazardous Substance List
- U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
- U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances
- U.S. - Pennsylvania - RTK (Right to Know) List

### Ethylene oxide (75-21-8)

- U.S. - Massachusetts - Right To Know List
- U.S. - New Jersey - Right to Know Hazardous Substance List
- U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
- U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances
- U.S. - Pennsylvania - RTK (Right to Know) List
PTG-4020
Safety Data Sheet

Oxygen (7782-44-7)
U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

Nitrogen (7727-37-9)
U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information
Revision date: 07/01/2015
Other information:
When you mix two or more chemicals, you can 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 evaluate the end product. Before using any plastics, confirm their compatibility with this product. Praxair asks users of this product to study this SDS and become aware of the product hazards and safety information. To promote safe use of this product, a user should (1) notify employees, agents, and contractors of the information in this SDS and of any other known product hazards and safety information, (2) furnish this information to each purchaser of the product, and (3) ask each purchaser to notify its employees and customers of the product hazards and safety information. The opinions expressed herein are those of qualified experts within Praxair, Inc. We believe that the information contained herein is current as of the date of this Safety Data Sheet. Since the use of this information and the conditions of use are not within the control of Praxair, Inc., it is the user's obligation to determine the conditions of safe use of the product. Praxair SDSs are furnished on sale or delivery by Praxair or the independent distributors and suppliers who package and sell our products. To obtain current SDSs for these products, contact your Praxair sales representative, local distributor, or supplier, or download from www.praxair.com. If you have questions regarding Praxair SDSs, would like the document number and date of the latest SDS, or would like the names of the Praxair suppliers in your area, phone or write the Praxair Call Center (Phone: 1-800-PRAXAIR/1-800-772-9247; Address: Praxair Call Center, Praxair, Inc., P.O. Box 44, Tonawanda, NY 14151-0044). PRAXAIR and the Flowing Airstream design are trademarks or registered trademarks of Praxair Technology, Inc. in the United States and/or other countries.

Full text of H-statements:

<table>
<thead>
<tr>
<th>Acute Tox. 3 (inhalation:gas)</th>
<th>Acute toxicity (inhalation:gas) Category 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox. 4 (Dermal)</td>
<td>Acute toxicity (dermal), Category 4</td>
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<tr>
<td>Acute Tox. 4 (Oral)</td>
<td>Acute toxicity (oral), Category 4</td>
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<td>Aquatic Acute 3</td>
<td>Hazardous to the aquatic environment — Acute Hazard, Category 3</td>
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<td>Carc. 1A</td>
<td>Carcinogenicity, Category 1A</td>
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<tr>
<td>Carc. 1B</td>
<td>Carcinogenicity, Category 1B</td>
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<tr>
<td>Compressed gas</td>
<td>Gases under pressure: Compressed gas</td>
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<td>Flam. Liq. 1</td>
<td>Flammable liquids, Category 1</td>
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<tr>
<td>Liquefied gas</td>
<td>Gases under pressure: Liquefied gas</td>
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<tr>
<td>Ox. Gas 1</td>
<td>Oxidising Gases, Category 1</td>
</tr>
<tr>
<td>H224</td>
<td>EXTREMELY FLAMMABLE LIQUID AND VAPOUR</td>
</tr>
<tr>
<td>H270</td>
<td>MAY CAUSE OR INTENSIFY FIRE; OXIDIZER</td>
</tr>
<tr>
<td>H280</td>
<td>CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED</td>
</tr>
<tr>
<td>H302</td>
<td>HARMFUL IF SWALLOWED</td>
</tr>
<tr>
<td>H312</td>
<td>HARMFUL IN CONTACT WITH SKIN</td>
</tr>
<tr>
<td>H331</td>
<td>TOXIC IF INHALED</td>
</tr>
<tr>
<td>H350</td>
<td>MAY CAUSE CANCER</td>
</tr>
<tr>
<td>H402</td>
<td>HARMFUL TO AQUATIC LIFE</td>
</tr>
</tbody>
</table>

SDS US (GHS HazCom 2012)
This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

ISC Part Numbers: 1810-6328