

## Section 1: Product and Company Identification

**Absolute Accuracy**  
4591 S Wayside Dr  
Houston, TX 77087  
(832) 571-2387

Product Code: 122

**Synonyms:** N/A

**Recommended Use:** CALIBRATION GAS

**Usage Restrictions:** INDUSTRIAL CALIBRATION GAS ONLY

## Section 2: Hazards Identification



**Danger**

### Hazard Classification:

Carcinogenicity (Category 1.B)

Eye Effects (Category 2.A)

Gases Under Pressure

Germ Cell Mutagenicity (Category 1.B)

Specific target organ toxicity (Single Exposure) (Category 3)

### Hazard Statements:

Causes serious eye irritation

Contains gas under pressure; may explode if heated

May cause cancer

May cause genetic defects

May cause respiratory irritation;

### Precautionary Statements

#### Prevention:

Wash thoroughly after handling.

Avoid breathing dust/fume/gas/mist/ vapors/spray.

[In case of inadequate ventilation] wear respiratory protection.

Do not handle until all safety precautions have been read and understood.

Use only outdoors or in a well-ventilated area.

Wear protective gloves, protective clothing, eye protection and face protection.

Obtain special instructions before use.

#### Response:

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

Call a poison center or doctor if you feel unwell.

If exposed or concerned: Get medical advice/attention.

**Storage:**

Store in a well-ventilated place. Keep container tightly closed.  
Protect from sunlight.  
Store locked up.

**Disposal:**

Dispose of contents and/or container in accordance with applicable regulations.

## Section 3: Composition/Information on Ingredients

|                       | CAS #     | Concentration |
|-----------------------|-----------|---------------|
| <b>Ethylene Oxide</b> | 75-21-8   | 10 PPM        |
| <b>Oxygen</b>         | 7782-44-7 | %20.9         |
| <b>Nitrogen</b>       | 7727-37-9 | BALANCE       |

|                       | Chemical Substance       | Chemical Family | Trade Names  |
|-----------------------|--------------------------|-----------------|--|
| <b>Ethylene Oxide</b> | ETHYLENE OXIDE           | Epoxides        | OXIRANE; DIHYROOXIRENE; DIMETHYLENE OXIDE; EPOXYETHANE; 1,2-EPOXYETHANE; ETHENE OXIDE; ETO; EO; OXACYCLOPROPANE; OXANE; OXIDOETHANE; ALPHA,BETA-OXIDOETHANE; OXIRAN; RCRA U115; STCC 4906610; UN 1040; C2H4O |
| <b>Oxygen</b>         | OXYGEN, COMPRESSED GAS   | Inorganic gases | OXYGEN; DIOXYGEN; MOLECULAR OXYGEN; OXYGEN MOLECULE; PURE OXYGEN; UN 1072; O2  |
| <b>Nitrogen</b>       | NITROGEN, COMPRESSED GAS | Inorganic gases | DIATOMIC NITROGEN; DINITROGEN; NITROGEN; NITROGEN-14; NITROGEN GAS; UN 1066; N2  |

## Section 4: First Aid Measures

|                       | Skin Contact   | Eye Contact   | Ingestion   | Inhalation  | Note to Physicians   |
|-----------------------|--|---|---|---|--|
| <b>Ethylene Oxide</b> | If frostbite or freezing occur, immediately flush with plenty of lukewarm water (105-115 F; 41-46 C). DO NOT USE HOT WATER. If warm water is not available, gently wrap affected parts in blankets. Get immediate medical attention. | Wash eyes immediately with large amounts of water, occasionally lifting upper and lower lids, until no evidence of chemical remains. Get medical attention immediately. | Contact local poison control center or physician immediately. Never make an unconscious person vomit or drink fluids. When vomiting occurs, keep head lower than hips to help prevent aspiration. If person is unconscious, turn head to side. Get medical attention immediately. | If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. Avoid mouth-to-mouth contact by using mouth guards or shields. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention. | For inhalation, consider oxygen. For ingestion, consider gastric lavage and activated charcoal slurry. |
| <b>Oxygen</b>         | None expected  | None expected   | Not likely route of exposure  | If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. Get immediate medical attention.   | None   |

|                 | <b>Skin Contact</b>                    | <b>Eye Contact</b>               | <b>Ingestion</b>                                       | <b>Inhalation</b>  | <b>Note to Physicians</b>        |
|-----------------|--|----------------------------------|--|--|----------------------------------|
| <b>Nitrogen</b> | Wash exposed skin with soap and water. | Flush eyes with plenty of water. | If a large amount is swallowed, get medical attention. | If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention. | For inhalation, consider oxygen. |

## Section 5: Fire Fighting Measures

|                       | <b>Suitable Extinguishing Media</b>   | <b>Products of Combustion</b>  | <b>Protection of Firefighters</b>  |
|-----------------------|---|--|--|
| <b>Ethylene Oxide</b> | Carbon dioxide, regular dry chemical, water Large fires: Use alcohol-resistant foam or flood with fine water spray.                             | Carbon monoxide, carbon dioxide and toxic and irritating fumes, carbon, acetaldehyde | <ul style="list-style-type: none"> <li>▪ Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode. Full body chemical protective suit.</li> <li>▪ Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode. Full body chemical protective suit.</li> </ul> |
| <b>Oxygen</b>         | Non-flammable. Use extinguishing agent appropriate for the material which is burning. Use water in large quantities for fires involving oxygen. | Oxides of burning material   | <ul style="list-style-type: none"> <li>▪ Respiratory protection may be needed for frequent or heavy exposure.</li> <li>▪ None</li> </ul>   |
| <b>Nitrogen</b>       | Non-flammable. Use suitable extinguishing media for surrounding fire. Cylinders may rupture or explode if exposed to heat.                      | Non-flammable  | <ul style="list-style-type: none"> <li>▪ Respiratory protection may be needed for frequent or heavy exposure.</li> </ul>   |

## Section 6: Accidental Release Measures

|                       | <b>Personal Precautions</b>  | <b>Environmental Precautions</b>   | <b>Methods for Containment</b>  |
|-----------------------|--|--|---|
| <b>Ethylene Oxide</b> | Keep unnecessary people away, isolate hazard area and deny entry.  | Avoid heat, flames, sparks and other sources of ignition. Keep out of water supplies and sewers. | Stop leak if possible without personal risk. Reduce vapors with water spray. Do not get water inside container. Remove sources of ignition. |
| <b>Oxygen</b>         | Keep unnecessary people away, isolate hazard area and deny entry. Ventilate closed spaces before entering. | Avoid contact with combustible materials.  | Stop leak if possible without personal risk.  |
| <b>Nitrogen</b>       | Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind and keep out of low areas.   | No significant effects from contamination expected.  | Stop leak if possible without personal risk.  |

|                       | <b>Methods for Cleanup</b>   | <b>Other Information</b>  |
|-----------------------|--|---|
| <b>Ethylene Oxide</b> | Small spills: Flood with water. Large spills: Dike for later disposal. | Notify Local Emergency Planning Committee and State Emergency Response Commission for release greater than or equal to RQ (U.S. SARA Section 304). If release occurs in the U.S. and is reportable under CERCLA Section 103, notify the National Response Center at (800)424-8802 (USA) or (202)426-2675 (USA). Subject to California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65). |

|          | Methods for Cleanup     | Other Information |
|----------|-------------------------|-------------------|
| Oxygen   | Stop leak and ventilate | None              |
| Nitrogen | N/A                     | N/A               |

## Section 7: Handling and Storage

|                       | Handling  | Storage  |
|-----------------------|---|--|
| <b>Ethylene Oxide</b> | Store and handle in accordance with all current regulations and standards. Subject to storage regulations: U.S. OSHA 29 CFR 1910.106. Store below 30 C. Store outside or in a detached building. Avoid contact with light. Store in a cool, dry place. Use diking sufficient to contain total contents plus 10%. Store with flammable liquids. Keep separated from incompatible substances. Grounding and bonding required. Notify State Emergency Response Commission for storage or use at amounts greater than or equal to the TPQ (U.S. EPA SARA Section 302). SARA Section 303 requires facilities storing a material with a TPQ to participate in local emergency response planning (U.S. EPA 40 CFR 355.30). | Keep separated from incompatible substances. Protect from physical damage. |
| <b>Oxygen</b>         | Store and handle in accordance with all current regulations and standards. Subject to storage regulations: U.S. OSHA 29 CFR 1910.101.   | Keep separated from incompatible substances.                               |
| <b>Nitrogen</b>       | Store and handle in accordance with all current regulations and standards. Subject to storage regulations: U.S. OSHA 29 CFR 1910.101.   | Keep separated from incompatible substances.                               |

## Section 8: Exposure Controls/Personal Protection

|                       | Exposure Guidelines   |
|-----------------------|---|
| <b>Ethylene Oxide</b> | ETHYLENE OXIDE: 1 ppm OSHA TWA 5 ppm OSHA excursion limit 15 minute(s) 0.5 ppm OSHA action level 1 ppm ACGIH TWA 0.1 ppm (0.18 mg/m <sup>3</sup> ) NIOSH recommended TWA 10 hour(s) (not to exceed) 5 ppm (9 mg/m <sup>3</sup> ) NIOSH recommended ceiling 10 minute(s) |
| <b>Oxygen</b>         | OXYGEN, COMPRESSED GAS: No occupational exposure limits established.  |
| <b>Nitrogen</b>       | NITROGEN, COMPRESSED GAS:<br>NITROGEN: ACGIH (simple asphyxiant)  |

### Engineering Controls

Handle only in fully enclosed systems.

|                       | Eye Protection  | Skin Protection   | Respiratory Protection   |
|-----------------------|---|---|--|
| <b>Ethylene Oxide</b> | Wear splash resistant safety goggles with a face shield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area. | For the gas: Wear appropriate chemical resistant clothing. For the liquid: Wear appropriate protective, cold insulating clothing. Wear appropriate chemical resistant clothing. | Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode. Full body chemical protective suit. |
| <b>Oxygen</b>         | Eye protection not required, but recommended.   | Protective clothing is not required.  | Respiratory protection may be needed for frequent or heavy exposure.   |
| <b>Nitrogen</b>       | Eye protection not required, but recommended.   | Protective clothing is not required.  | Respiratory protection may be needed for frequent or heavy exposure.   |

## General Hygiene considerations

- Avoid breathing vapor or mist
- Avoid contact with eyes and skin
- Wash thoroughly after handling and before eating or drinking

## Section 9: Physical and Chemical Properties

|                       | Physical State | Appearance | Color     | Change in Appearance | Physical Form | Odor       | Taste     |
|-----------------------|----------------|------------|-----------|----------------------|---------------|------------|-----------|
| <b>Ethylene Oxide</b> | Gas            | Colorless  | Colorless | N/A                  | Gas           | Sweet odor | N/A       |
| <b>Oxygen</b>         | Gas            | Clear      | Colorless | N/A                  | Gas           | Odorless   | Tasteless |
| <b>Nitrogen</b>       | Gas            | Clear      | Colorless | N/A                  | Gas           | Odorless   | Tasteless |

|                       | Flash Point                             | Flammability  | Partition Coefficient | Autoignition Temperature | Upper Explosive Limits | Lower Explosive Limits |
|-----------------------|---|---------------|-----------------------|--------------------------|------------------------|------------------------|
| <b>Ethylene Oxide</b> | -4 F (-20 C) (CC) (pure ethylene oxide) | Not available | Not available         | 804 F (429 C)            | 1                      | 0.03                   |
| <b>Oxygen</b>         | Not flammable                           | Not available | Not available         | Nonflammable             | Nonflammable           | Nonflammable           |
| <b>Nitrogen</b>       | Not flammable                           | Not available | Not available         | Nonflammable             | Nonflammable           | Nonflammable           |

|                       | Boiling Point                         | Freezing Point  | Vapor Pressure    | Vapor Density | Specific Gravity | Water Solubility | pH             | Odor Threshold | Evaporation Rate | Viscosity         |
|-----------------------|---------------------------------------|-----------------|-------------------|---------------|------------------|------------------|----------------|----------------|------------------|-------------------|
| <b>Ethylene Oxide</b> | 50.7 F (10.4 C) (pure ethylene oxide) | -168 F (-111 C) | 1095 mmHg @ 20 C  | 1.5 (Air=1)   | 0.8824 @ 10 C    | Soluble          | Not applicable | 500 ppm        | Not applicable   | 0.0095 cP @ 20 C  |
| <b>Oxygen</b>         | -297 F (-183 C)                       | -360 F (-218 C) | 760 mmHg @ -183 C | 1.1 (Air=1)   | Not applicable   | 3.2% @ 25 C      | Not applicable | Not available  | Not applicable   | 0.02075 cP @ 25 C |
| <b>Nitrogen</b>       | -321 F (-196 C)                       | -346 F (-210 C) | 760 mmHg @ -196 C | 0.967 (Air=1) | Not applicable   | 1.6% @ 20 C      | Not applicable | Not available  | Not applicable   | 0.01787 cP @ 27 C |

|                       | Molecular Weight | Molecular Formula                   | Density          | Weight per Gallon | Volatility by Volume | Volatility     | Solvent Solubility  |
|-----------------------|------------------|-------------------------------------|------------------|-------------------|----------------------|----------------|---|
| <b>Ethylene Oxide</b> | 44.06            | (C-H <sub>2</sub> ) <sub>2</sub> -O | Not available    | Not available     | 100%                 | 1              | Soluble: Alcohol, ether, acetone, benzene, carbon tetrachloride, organic solvents |
| <b>Oxygen</b>         | 31.9988          | O <sub>2</sub>                      | 1.309 g/L @ 25 C | Not available     | Not applicable       | Not applicable | Soluble: Alcohol  |
| <b>Nitrogen</b>       | 28.0134          | N <sub>2</sub>                      | 1.2506 g/L       | Not available     | 100%                 | 1              | Soluble: Liquid ammonia   |

## Section 10: Stability and Reactivity

|                       | Stability   | Conditions to Avoid   | Incompatible Materials  |
|-----------------------|---|---|---|
| <b>Ethylene Oxide</b> | May decompose explosively when heated above 427 C. Normally stable in the absence of catalysts. | May decompose explosively when heated above 427 C. Normally stable in the absence of catalysts. | Acids, combustible materials, bases, metal salts, metal oxides, amines, halo carbons, metals, cyanides, oxidizing materials, porous refractory insulation, alcohols |

|                 | <b>Stability</b>                            | <b>Conditions to Avoid</b>                  | <b>Incompatible Materials</b>   |
|-----------------|---|---|---|
| <b>Oxygen</b>   | Stable at normal temperatures and pressure. | Stable at normal temperatures and pressure. | Combustible materials, halo carbons, metals, bases, reducing agents, amines, metal salts, oxidizing materials, alkaline earth and alkali metals |
| <b>Nitrogen</b> | Stable at normal temperatures and pressure. | Stable at normal temperatures and pressure. | Metals, oxidizing materials   |

|                       | <b>Hazardous Decomposition Products</b> | <b>Possibility of Hazardous Reactions</b>   |
|-----------------------|---|---|
| <b>Ethylene Oxide</b> | Oxides of carbon                        | May polymerize violently or explosively. May polymerize when heated. Avoid contact with incompatible materials. |
| <b>Oxygen</b>         | Miscellaneous decomposition products    | Will not polymerize.  |
| <b>Nitrogen</b>       | Oxides of nitrogen                      | Will not polymerize.  |

## Section 11: Toxicology Information

### Acute Effects

|                       | <b>Oral LD50</b>       | <b>Dermal LD50</b> | <b>Inhalation</b>   |
|-----------------------|------------------------|--------------------|---|
| <b>Ethylene Oxide</b> | 72 mg/kg oral-rat LD50 | Not available      | Irritation, lack of sense of smell, tearing, nausea, vomiting, diarrhea, difficulty breathing, irregular heartbeat, headache, drowsiness, symptoms of drunkenness, disorientation, bluish skin color, lung congestion, lung damage, kidney damage, paralysis, reproductive effects, convulsions |
| <b>Oxygen</b>         | Not established        | Not established    | Irritation, changes in body temperature, nausea, difficulty breathing, irregular heartbeat, dizziness, disorientation, hallucinations, mood swings, pain in extremities, tremors, lung congestion, convulsions  |
| <b>Nitrogen</b>       | Not available          | Not available      | Nausea, vomiting, difficulty breathing, headache, drowsiness, dizziness, tingling sensation, loss of coordination, convulsions, coma  |

|                       | <b>Eye Irritation</b>   | <b>Skin Irritation</b>                                     | <b>Sensitization</b>  |
|-----------------------|---|--|---|
| <b>Ethylene Oxide</b> | Irritation (possibly severe), frostbite, tearing                | Irritation (possibly severe), allergic reactions, blisters | Skin irritation, Category 2; H315: Causes skin irritation. Eye irritation, Category 2; H319: Causes serious eye irritation. Acute toxicity, Category 3, inhalation; H331: Toxic if inhaled. Specific Target Organ Toxicity (single exposure), Category 3; H335: May cause respiratory irritation. Germ cell mutagenicity, Category 1B; H340: May cause genetic defects. Carcinogenicity, Category 1B; H350: May cause cancer. |
| <b>Oxygen</b>         | No information on significant adverse effects                   | No information on significant adverse effects              | No significant target effects reported.   |
| <b>Nitrogen</b>       | Contact with rapidly expanding gas may cause burns or frostbite | No information on significant adverse effects              | Difficulty breathing  |

### Chronic Effects

|                       | <b>Carcinogenicity</b>   | <b>Mutagenicity</b> | <b>Reproductive Effects</b> | <b>Developmental Effects</b> |
|-----------------------|--|---------------------|-----------------------------|------------------------------|
| <b>Ethylene Oxide</b> | OSHA: Carcinogen; NTP: Known Human Carcinogen; IARC: Human Limited Evidence, Animal Sufficient Evidence, Group 1; ACGIH: A2 - Suspected Human Carcinogen | Available.          | Available.                  | No data                      |
| <b>Oxygen</b>         | Not known.   | Available.          | Available.                  | No data                      |
| <b>Nitrogen</b>       | Not hazardous  | Not available       | Not available               | No data                      |

## Section 12: Ecological Information

### Fate and Transport

|                       | Eco toxicity  | Persistence / Degradability | Bioaccumulation / Accumulation | Mobility in Environment |
|-----------------------|---|-----------------------------|--------------------------------|-------------------------|
| <b>Ethylene Oxide</b> | Fish toxicity: Acute LC50 84000 to 96000 ug/L Fresh water Fish - Fathead minnow - Pimephales promelas 96 hours<br>Invertebrate toxicity: 490000 ug/L 48 hour(s) LC50 (Mortality) Brine shrimp (Artemia sp)<br>Algal toxicity: Not available<br>Phyto toxicity: Not available<br>Other toxicity: Not available | Not available               | Not available                  | Not available           |
| <b>Oxygen</b>         | Fish toxicity: Not available<br>Invertebrate toxicity: Not available<br>Algal toxicity: Not available<br>Phyto toxicity: Not available<br>Other toxicity: Not available   | Not available               | Low bioaccumulation            | Not available           |
| <b>Nitrogen</b>       | Fish toxicity: Not available<br>Invertebrate toxicity: Not available<br>Algal toxicity: Not available<br>Phyto toxicity: Not available<br>Other toxicity: Not available   | Not available               | Not available                  | Not available           |

## Section 13: Disposal Considerations

|                       |   |
|-----------------------|---|
| <b>Ethylene Oxide</b> | Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): U115. Dispose in accordance with all applicable regulations. |
| <b>Oxygen</b>         | Dispose in accordance with all applicable regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): D001. |
| <b>Nitrogen</b>       | Dispose in accordance with all applicable regulations.  |

## Section 14: Transportation Information

U.S. DOT 49 CFR 172.101

### DOT Information For This Mixture

|                           |   |
|---------------------------|---|
| <b>Shipping Name</b>      | Compressed gas, n.o.s. (Nitrogen, Oxygen) |
| <b>UN Number</b>          | UN1956                                    |
| <b>Hazard Class</b>       | 2.2                                       |
| <b>Hazard Information</b> | Non-Flammable Gas                         |

### Individual Component Information

|                       | Proper Shipping Name   | ID Number | Hazard Class or Division | Packing Group  | Labeling Requirements | Passenger Aircraft or Railcar Quantity Limitations | Cargo Aircraft Only Quantity Limitations | Additional Shipping Description |
|-----------------------|--|-----------|--------------------------|----------------|-----------------------|--|--|---------------------------------|
| <b>Ethylene Oxide</b> | ETHYLENE OXIDE; or ETHYLENE OXIDE WITH NITROGEN up to a total pressure of 1 MPa (10 bar) at 50 degrees C | UN1040    | 2.3                      | Not applicable | 2.3; 2.1              | Forbidden  | Forbidden                                | Toxic-Inhalation Hazard Zone D  |
| <b>Oxygen</b>         | Oxygen, compressed   | UN1072    | 2.2                      | Not available  | 2.2; 5.1              | 75 kg or L   | 150 kg                                   | N/A                             |
| <b>Nitrogen</b>       | Nitrogen, compressed   | UN1066    | 2.2                      | Not applicable | 2.2                   | 75 kg or L   | 150 kg                                   | N/A                             |

### Canadian Transportation of Dangerous Goods

|                       | Shipping Name  | UN Number | Class    | Packing Group / Risk Group |
|-----------------------|--|-----------|----------|----------------------------|
| <b>Ethylene Oxide</b> | ETHYLENE OXIDE; or ETHYLENE OXIDE WITH NITROGEN up to a total pressure of 1 MPa (10 bar) at 50 degrees C | UN1040    | 2.3; 2.1 | Not applicable             |
| <b>Oxygen</b>         | Oxygen, compressed   | UN1072    | 2.2; 5.1 | Not applicable             |
| <b>Nitrogen</b>       | Nitrogen, compressed   | UN1066    | 2.2      | Not applicable             |

## Section 15: Regulatory Information

### U.S. Regulations

|                       | CERCLA Sections  | SARA 355.30    | SARA 355.40    |
|-----------------------|--|----------------|----------------|
| <b>Ethylene Oxide</b> | ETHYLENE OXIDE: 10 LBS RQ<br>Acetaldehyde: 1000 LBS RQ<br>ACETIC ACID: 5000 LBS RQ | 1000 LBS TPQ   | 10 LBS RQ      |
| <b>Oxygen</b>         | Not regulated.   | Not regulated. | Not regulated. |
| <b>Nitrogen</b>       | Not regulated.   | Not regulated. | Not regulated. |

### SARA 370.21

|                       | Acute | Chronic | Fire | Reactive | Sudden Release |
|-----------------------|-------|---------|------|----------|----------------|
| <b>Ethylene Oxide</b> | Yes   | Yes     | Yes  | Yes      | Yes            |
| <b>Oxygen</b>         | No    | No      | Yes  | No       | Yes            |
| <b>Nitrogen</b>       | Yes   | No      | No   | No       | Yes            |



**SARA 372.65**

|                       |                |
|-----------------------|----------------|
| <b>Ethylene Oxide</b> | ETHYLENE OXIDE |
| <b>Oxygen</b>         | Not regulated. |
| <b>Nitrogen</b>       | Not regulated. |

**OSHA Process Safety**

|                       |   |
|-----------------------|---|
| <b>Ethylene Oxide</b> | ETHYLENE OXIDE: 5000 LBS TQ Acetaldehyde: 2500 LBS TQ |
| <b>Oxygen</b>         | Not regulated.  |
| <b>Nitrogen</b>       | Not regulated.  |

**State Regulations**

|                       |   |
|-----------------------|---|
|                       | <b>CA Proposition 65</b>  |
| <b>Ethylene Oxide</b> | WARNING: This product can expose you to chemicals including Ethylene Oxide, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> . |
| <b>Oxygen</b>         | Not regulated.  |
| <b>Nitrogen</b>       | Not regulated.  |

**Canadian Regulations**

|                       |                             |
|-----------------------|-----------------------------|
|                       | <b>WHMIS Classification</b> |
| <b>Ethylene Oxide</b> | A, B1, D1A, D2A, E, F       |
| <b>Oxygen</b>         | A,C                         |
| <b>Nitrogen</b>       | A                           |

**National Inventory Status**

|                       | <b>US Inventory (TSCA)</b> | <b>TSCA 12b Export Notification</b> | <b>Canada Inventory (DSL/NDL)</b> |
|-----------------------|----------------------------|-------------------------------------|-----------------------------------|
| <b>Ethylene Oxide</b> | Listed on inventory.       | Not listed.                         | Not determined.                   |
| <b>Oxygen</b>         | Listed on inventory.       | Not listed.                         | Not determined.                   |
| <b>Nitrogen</b>       | Listed on inventory.       | Not listed.                         | Listed on inventory.              |

**Section 16: Other Information**

|                       |   |
|-----------------------|---|
|                       | <b>NFPA Rating</b>                      |
| <b>Ethylene Oxide</b> | HEALTH=3 FIRE=4 REACTIVITY=3            |
| <b>Oxygen</b>         | HEALTH=0 FIRE=0 REACTIVITY=0 SPECIAL=OX |
| <b>Nitrogen</b>       | HEALTH=0 FIRE=0 REACTIVITY=0 SPECIAL=SA |

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard