SECTION 1: Identification

1.1. Product identifier

Product form: Mixture
Name: PTG-4000
Formula: (0.00001 - 0.01 %) Hydrogen Sulfide, (0.0001 - 0.0999 %) Carbon Monoxide, (0.0001 - 1.05 %) Pentane, (0.0001 - 20.9 %) Oxygen in Nitrogen.

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

Use of the substance/mixture: Industrial use. Use as directed.
Recommended use and restrictions on use: Calibration / Reference

1.3. Details of the supplier of the safety data sheet

PortaGas (Praxair, Inc.)
1202 E Sam Houston Pkwy S
Pasadena, TX 77503 - USA
T +1 713-928-6477 - F +1 713-928-9961
pdimsds@Praxair.com - www.praxair.com

1.4. Emergency telephone number

Emergency number: Onsite Emergencies: 1-800-645-4633
CHEMTREC: USA 1-800-424-9300, International 001-703-527-3887 (Collect calls accepted, contract 17729)

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

GHS-US classification
Compressed gas  H280

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US): 

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-PG27 - Read and follow the Safety Data Sheet (SDS) before use
          CGA-PG21 - Open valve slowly
          CGA-PG12 - Do not open valve until connected to equipment prepared for use
          CGA-PG11 - Never put cylinders into unventilated areas of passenger vehicles
          CGA-PG10 - Use only with equipment rated for cylinder pressure
          CGA-PG06 - Close valve after each use and when empty
          CGA-PG05 - Use a back flow preventive device in the piping
          CGA-PG02 - Protect from sunlight when ambient temperature exceeds 52°C (125°F)
          CGA-MP01 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
                  Get medical advice/attention
                  P261 - Avoid breathing gas, vapors

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable.
PTG-4000
Safety Data Sheet

SECTION 2: Hazard identification
2.1. Classification of the substance or mixture

**GHS-CA classification**
Compressed gas  H280

2.2. GHS Label elements, including precautionary statements

**GHS-CA labelling**

<table>
<thead>
<tr>
<th>Hazard pictograms</th>
<th>![GHS04]</th>
</tr>
</thead>
</table>

**Signal word**: WARNING

**Hazard statements**: CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED

**Precautionary statements**: Use and store only outdoors or in a well-ventilated place
Read and follow the Safety Data Sheet (SDS) before use
Open valve slowly
Do not open valve until connected to equipment prepared for use
Never put cylinders into unventilated areas of passenger vehicles
Use only with equipment rated for cylinder pressure
Close valve after each use and when empty
Use a back flow preventive device in the piping
Protect from sunlight when ambient temperature exceeds 52°C (125°F)
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention
Avoid breathing gas, vapors

2.3. Other hazards

2.4. Unknown acute toxicity (GHS-CA)
No data available

SECTION 3: Composition/Information on ingredients

3.1. Substance
Not applicable

3.2. Mixture

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<th>Product Identifier</th>
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<th>Common Name (Synonyms)</th>
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<td>0.0001 - 0.0999</td>
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<tr>
<td>Hydrogen sulfide</td>
<td>(CAS No) 7783-06-4</td>
<td>0.0001 - 0.01</td>
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SECTION 4: First aid measures

4.1. Description of first aid measures

**First-aid measures after inhalation**: Remove to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, trained personnel should 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.

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08/10/2016 EN (English US) SDS ID: PTG-4000
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
Symptoms/injuries: Effects are due to lack of oxygen. Moderate concentrations may cause headache, drowsiness, dizziness, excitation, excess salivation, vomiting, and unconsciousness. Prolonged exposure to low concentrations of carbon monoxide can kill. Inhalation.

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
Fire hazard: Not flammable.
Explosion hazard: Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.
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
Emergency procedures: Evacuate unnecessary personnel.

6.1.2. For emergency responders
Emergency procedures: Stop leak if safe to do so.

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**

Technical measures: Comply with applicable regulations.

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 HANDLING, 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.

7.3. **Specific end use(s)**

None.

**SECTION 8: Exposure controls/personal protection**

8.1. **Control parameters**

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<thead>
<tr>
<th>Substance</th>
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### Hydrogen sulfide (7783-06-4)

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### Carbon monoxide (630-08-0)

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</table>

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08/10/2016 EN (English US) SDS ID: PTG-4000 5/16
# Carbon monoxide (630-08-0)

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<th>Standard</th>
<th>Unit</th>
<th>Value</th>
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# Nitrogen (7727-37-9)

<table>
<thead>
<tr>
<th>Source</th>
<th>Standard</th>
<th>Unit</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>ACGIH TLV-TWA (ppm)</td>
<td>ppm</td>
<td>1000</td>
</tr>
<tr>
<td>OSHA</td>
<td>OSHA PEL (TWA) (mg/m³)</td>
<td>mg/m³</td>
<td>2950</td>
</tr>
<tr>
<td>OSHA</td>
<td>OSHA PEL (TWA) (ppm)</td>
<td>ppm</td>
<td>1000</td>
</tr>
<tr>
<td>IDLH</td>
<td>US IDLH (ppm)</td>
<td>ppm</td>
<td>1500 (10% LEL)</td>
</tr>
<tr>
<td>NIOSH</td>
<td>NIOSH REL (TWA) (mg/m³)</td>
<td>mg/m³</td>
<td>350</td>
</tr>
<tr>
<td>NIOSH</td>
<td>NIOSH REL (TWA) (ppm)</td>
<td>ppm</td>
<td>120</td>
</tr>
<tr>
<td>NIOSH</td>
<td>NIOSH REL (ceiling) (mg/m³)</td>
<td>mg/m³</td>
<td>1800</td>
</tr>
<tr>
<td>NIOSH</td>
<td>NIOSH REL (ceiling) (ppm)</td>
<td>ppm</td>
<td>610</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Source</th>
<th>Standard</th>
<th>Unit</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alberta</td>
<td>OEL TWA (mg/m³)</td>
<td>mg/m³</td>
<td>1770</td>
</tr>
<tr>
<td>Alberta</td>
<td>OEL TWA (ppm)</td>
<td>ppm</td>
<td>600</td>
</tr>
</tbody>
</table>
Exposure controls

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

Personal protective equipment: Safety glasses. Gloves.

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. Select in accordance with the current CSA standard Z94.3, "Industrial Eye and Face Protection", and any provincial regulations, local bylaws or guidelines.

Skin and body protection: 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. Safety shoes: Select in accordance with the current CSA standard Z195, "Protective Foot Wear", and any provincial regulations, local bylaws or guidelines.
Respiratory protection: When workplace conditions warrant respirator use, follow a respiratory protection program that meets OSHA 29 CFR 1910.134, ANSI Z88.2, or MSHA 30 CFR 72.710 (where applicable). Use an air-supplied or air-purifying cartridge if the action level is exceeded. Ensure that the respirator has the appropriate protection factor for the exposure level. If cartridge type respirators are used, the cartridge must be appropriate for the chemical exposure. For emergencies or instances with unknown exposure levels, use a self-contained breathing apparatus (SCBA).

Respiratory protection: Use respirable fume respirator or air supplied respirator when working in confined space or where local exhaust or ventilation does not keep exposure below TLV. Select in accordance with provincial regulations, local bylaws or guidelines. Selection should be based on the current CSA standard Z94.4, "Selection, Care, and Use of Respirators." Respirators should also be approved by NIOSH and MSHA. For emergencies or instances with unknown exposure levels, use a self-contained breathing apparatus (SCBA).

Thermal hazard protection: Wear cold insulating gloves when transferring or breaking transfer connections.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Gas
Color: Colorless
Odor: Rotten eggs
Odor threshold: > 3 ppm Hydrogen Sulfide
pH: Not applicable.
Relative evaporation rate (butyl acetate=1): Not applicable.
Relative evaporation rate (ether=1): Not applicable.
Melting point: No data available
Freezing point: No data available
Boiling point: No data available
Flash point: No data available
Relative evaporation rate (butyl acetate=1): No data available
Relative evaporation rate (ether=1): Not applicable.
Flammability (solid, gas): No data available
Explosion limits: No data available
Explosive properties: Not applicable.
Oxidizing properties: None.
Vapor pressure: Not applicable.
Relative density: No data available
Relative vapor density at 20 °C: No data available
Solubility: Water: No data available
Log Pow: Not applicable.
Log Kow: Not applicable.
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Viscosity: No data available
Viscosity, kinematic: Not applicable.
Viscosity, dynamic: Not applicable.

9.2. Other information

Gas group: Compressed gas

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.
## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

<table>
<thead>
<tr>
<th>Likely routes of exposure</th>
<th>Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

### Hydrogen sulfide (7783-06-4)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 inhalation rat (ppm)</td>
<td>356 ppm/4h</td>
</tr>
<tr>
<td>ATE US (gases)</td>
<td>356.000 ppmV/4h</td>
</tr>
</tbody>
</table>

### Carbon monoxide (630-08-0)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 inhalation rat (ppm)</td>
<td>3760 ppm/1h</td>
</tr>
<tr>
<td>ATE US (gases)</td>
<td>1880.000 ppmV/4h</td>
</tr>
</tbody>
</table>

### n-Pentane (109-66-0)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 inhalation rat (ppm)</td>
<td>246702 ppm/1h</td>
</tr>
<tr>
<td>ATE US (gases)</td>
<td>123351.000 ppmV/4h</td>
</tr>
</tbody>
</table>

### Skin corrosion/irritation

- Not classified

### pH

- Not applicable

### Serious eye damage/irritation

- Not classified

### pH

- Not applicable

### Respiratory or skin sensitization

- Not classified

### Germ cell mutagenicity

- Not classified

### Carcinogenicity

- Not classified

### 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.

### Hydrogen sulfide (7783-06-4)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>0.0448 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through])</td>
</tr>
<tr>
<td>LC50 fish 2</td>
<td>0.016 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])</td>
</tr>
</tbody>
</table>
## 12.2. Persistence and degradability

<table>
<thead>
<tr>
<th>Substance</th>
<th>Persistence and degradability</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>n-Pentane (109-66-0)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50 fish 1</td>
<td>9.87 mg/l (96 h, Oncorhynchus mykiss)</td>
<td></td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>9.74 mg/l (48 h, Daphnia magna)</td>
<td></td>
</tr>
<tr>
<td>LC50 fish 2</td>
<td>11.59 mg/l (96 h, Pimephales promelas)</td>
<td></td>
</tr>
</tbody>
</table>

**PTG-4000**

Persistence and degradability

No ecological damage caused by this product.

**Hydrogen sulfide (7783-06-4)**

Persistence and degradability

Not applicable for inorganic gases.

**Nitrogen (7727-37-9)**

Persistence and degradability

No ecological damage caused by this product.

**Oxygen (7782-44-7)**

Persistence and degradability

No ecological damage caused by this product.

## 12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Substance</th>
<th>Bioaccumulative potential</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PTG-4000</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Log Pow</td>
<td>Not applicable.</td>
<td></td>
</tr>
<tr>
<td>Log Kow</td>
<td>Not applicable.</td>
<td></td>
</tr>
<tr>
<td>Bioaccumulative potential</td>
<td>No ecological damage caused by this product.</td>
<td></td>
</tr>
</tbody>
</table>

**Hydrogen sulfide (7783-06-4)**

BCF fish 1

(no bioaccumulation expected)

Log Pow

Not applicable.

Log Kow

Not applicable.

Bioaccumulative potential

No data available.

**Carbon monoxide (630-08-0)**

Log Pow

Not applicable.

**Nitrogen (7727-37-9)**

Log Pow

Not applicable.

Log Kow

Not applicable.

Bioaccumulative potential

No data available.

**Oxygen (7782-44-7)**

Log Pow

Not applicable.

Log Kow

Not applicable.

Bioaccumulative potential

No data available.

**n-Pentane (109-66-0)**

Log Pow

3.39

## 12.4. Mobility in soil

<table>
<thead>
<tr>
<th>Substance</th>
<th>Mobility in soil</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PTG-4000</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mobility in soil</td>
<td></td>
<td>No data available.</td>
</tr>
</tbody>
</table>

**Hydrogen sulfide (7783-06-4)**

Mobility in soil

No data available.

Ecology - soil

Because of its high volatility, the product is unlikely to cause ground or water pollution.

**Carbon monoxide (630-08-0)**

Mobility in soil

No data available.

**Nitrogen (7727-37-9)**

Mobility in soil

No data available.

Ecology - soil

No ecological damage caused by this product.

**Oxygen (7782-44-7)**

Mobility in soil

No data available.

Ecology - soil

No ecological damage caused by this product.
**PTG-4000**

**Safety Data Sheet**


---

### 12.5. Other adverse effects

- **Effect on ozone layer**: None
- **Effect on the global warming**: No known effects from 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.
- **Class (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 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

---

**Additional information**

- **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.

---

**In accordance with TDG**

**TDG**

- **UN-No. (TDG)**: UN1956
- **Proper Shipping Name (TDG)**: Compressed Gas, n.o.s.
- **TDG Primary Hazard Classes**: 2.2 - Class 2.2 - Non-Flammable, Non-Toxic Gas.
- **Explosive Limit and Limited Quantity Index**: 0.125L
- **Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index**: 75 L

---

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08/10/2016  
EN (English US)  
SDS ID: PTG-4000
PTG-4000
Safety Data Sheet
Prepared in accordance with the SDS requirements of the WHMIS Controlled Products Regulation.

Transport by sea
UN-No. (IMDG) : 1956
Proper Shipping Name (IMDG) : COMPRESSED GAS, N.O.S.
Class (IMDG) : 2 - 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
Civil Aeronautics Law : Gases under pressure/Gases nonflammable nontoxic under pressure

SECTION 15: Regulatory information
15.1. US Federal regulations
PTG-4000
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Subject to reporting requirements of United States SARA Section 313
Listed on the United States SARA Section 302

Hydrogen sulfide (7783-06-4)
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
SARA Section 302 Threshold Planning Quantity (TPQ) : 500
SARA Section 313 - Emission Reporting : 1.0 %

Carbon monoxide (630-08-0)
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

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

n-Pentane (109-66-0)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
EPA TSCA Regulatory Flag : T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA

15.2. International regulations
CANADA
PTG-4000
Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification : Class A - Compressed Gas
PTG-4000
Safety Data Sheet

Hydrogen sulfide (7783-06-4)
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 B - Toxic material causing other toxic effects |

Carbon monoxide (630-08-0)
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 |

Nitrogen (7727-37-9)
Listed on the Canadian DSL (Domestic Substances List)

| WHMIS Classification | Class A - Compressed Gas |

Oxygen (7782-44-7)
Listed on the Canadian DSL (Domestic Substances List)

| WHMIS Classification | Class A - Compressed Gas  
| Class C - Oxidizing Material |

n-Pentane (109-66-0)
Listed on the Canadian DSL (Domestic Substances List)

| WHMIS Classification | Class B Division 2 - Flammable Liquid |

EU-Regulations

Hydrogen sulfide (7783-06-4)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Carbon monoxide (630-08-0)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Nitrogen (7727-37-9)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Oxygen (7782-44-7)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

n-Pentane (109-66-0)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Classification according to Regulation (EC) No. 1272/2008 [CLP]
Flam. Gas 1 H220  
Ox. Gas 1 H270  
Compressed gas H280  
Acute Tox. 3 (Inhalation:gas) H331

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]
No additional information available

National regulations

Hydrogen sulfide (7783-06-4)
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the Canadian IDL (Ingredient Disclosure List)
Listed on INSQ (Mexican national Inventory of Chemical Substances)
# PTG-4000 Safety Data Sheet


Prepared in accordance with the SDS requirements of the WHMIS Controlled Products Regulation.

**Carbon monoxide (630-08-0)**
- Listed on the AICS (Australian Inventory of Chemical Substances)
- Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
- Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
- Listed on the Korean ECL (Existing Chemicals List)
- Listed on NZIoC (New Zealand Inventory of Chemicals)
- Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
- Listed on the Canadian IDL (Ingredient Disclosure List)
- Listed on INSQ (Mexican national Inventory of Chemical Substances)

**Nitrogen (7727-37-9)**
- Listed on the AICS (Australian Inventory of Chemical Substances)
- Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
- Listed on the Korean ECL (Existing Chemicals List)
- Listed on NZIoC (New Zealand Inventory of Chemicals)
- Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
- Listed on INSQ (Mexican national Inventory of Chemical Substances)

**Oxygen (7782-44-7)**
- Listed on the AICS (Australian Inventory of Chemical Substances)
- Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
- Listed on the Korean ECL (Existing Chemicals List)
- Listed on NZIoC (New Zealand Inventory of Chemicals)
- Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
- Listed on INSQ (Mexican national Inventory of Chemical Substances)

**n-Pentane (109-66-0)**
- Listed on the AICS (Australian Inventory of Chemical Substances)
- Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
- Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
- Listed on the Korean ECL (Existing Chemicals List)
- Listed on NZIoC (New Zealand Inventory of Chemicals)
- Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
- Listed on INSQ (Mexican national Inventory of Chemical Substances)

## 15.3. US State regulations

**PTG-4000()**

<table>
<thead>
<tr>
<th>State</th>
<th>List</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. - California</td>
<td>Proposition 65 - Carcinogens List</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>U.S. - California</td>
<td>Proposition 65 - Developmental Toxicity</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>U.S. - California</td>
<td>Proposition 65 - Reproductive Toxicity - Female</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>U.S. - California</td>
<td>Proposition 65 - Reproductive Toxicity - Male</td>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>

**Carbon monoxide (630-08-0)**

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

**Hydrogen sulfide (7783-06-4)**

<table>
<thead>
<tr>
<th>State</th>
<th>List</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. - Massachusetts</td>
<td>Right To Know List</td>
</tr>
<tr>
<td>U.S. - New Jersey</td>
<td>Right to Know Hazardous Substance List</td>
</tr>
<tr>
<td>U.S. - Pennsylvania</td>
<td>RTK (Right to Know) - Environmental Hazard List</td>
</tr>
<tr>
<td>U.S. - Pennsylvania</td>
<td>RTK (Right to Know) List</td>
</tr>
</tbody>
</table>

---

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08/10/2016 EN (English US) SDS ID: PTG-4000 14/16
SECTION 16: Other information

Revision date: 01/14/2016

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.

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