SECTION: 1. Product and company identification

1.1. Product identifier

Product form: Mixture
Formula: Non-flammable, non-oxidizing gas mixture containing one or more of the following components: Sulfur Dioxide, 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

Manufactured for: Industrial Scientific Corporation
1 Life Way
Pittsburgh, PA 15205-7500 - USA
USA Phone: 412-788-4353
1-800-DETECTS (338-3287)
Fax: 412-788-8353
www.indsci.com

By: PortaGas(Praxair, Inc)
1202 E Sam Houston Pkwy S
Pasadena, TX 77503
USA Phone: 412-788-4353
1-800-DETECTS (338-3287)
Fax: 412-788-8353

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: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)
Compressed gas H280
Skin Irrit. 2 H315
Eye Irrit. 2A H319

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US):

Hazard statements (GHS-US):
H280 - CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED
H315 - CAUSES SKIN IRRITATION
H319 - CAUSES SERIOUS EYE IRRITATION
OSHA-H01 - MAY DISPLACE OXYGEN AND CAUSE RAPID SUFFOCATION.

Precautionary statements (GHS-US):
P264 - Wash exposed skin thoroughly after handling
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P302+P352 - If on skin: Wash with plenty of water
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321 - Specific treatment (see First aid measures on this label)
P332+P313 - If skin irritation occurs: Get medical advice/attention
P337+P313 - If eye irritation persists: Get medical advice/attention
P362 - Take off contaminated clothing and wash before reuse.
CGA-PG02 - Protect from sunlight when ambient temperature exceeds 52°C (125°F).
CGA-PG05 - Use a back flow preventive device in the piping.
CGA-PG06 - Close valve after each use and when empty.
CGA-PG10 - Use only with equipment rated for cylinder pressure.
CGA-PG11 - Never put cylinders into unventilated areas of passenger vehicles.
CGA-PG12 - Do not open valve until connected to equipment prepared for use.
CGA-PG21 - Open valve slowly.
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)
No data available

SECTION 3: Composition/information on ingredients

3.1. Substance
Not applicable

3.2. Mixture

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<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
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<tr>
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<td>(CAS No) 7727-37-9</td>
<td>79.1-99.999</td>
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<tr>
<td>Oxygen</td>
<td>(CAS No) 7782-44-7</td>
<td>0.0001-20.9</td>
</tr>
<tr>
<td>Sulfur dioxide</td>
<td>(CAS No) 7446-09-5</td>
<td>0.0001-1</td>
</tr>
</tbody>
</table>

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: Remove contaminated clothing. Drench affected area with water for at least 15 minutes.
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
Obtain medical assistance.

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.
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
General measures: Wear self-contained breathing apparatus when entering area unless atmosphere is proven to be safe. Use chemically protective clothing.
6.1.1. For non-emergency personnel

Emergency procedures: Evacuate unnecessary personnel.

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Reduce vapor with fog or fine water spray. 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

Methods for cleaning up: This material and its container must be disposed of in a safe way, and as per local legislation.

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 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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<tr>
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<td>ACGIH TLV- STEL (ppm)</td>
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<tr>
<td>USA OSHA</td>
<td>OSHA PEL (TWA) (mg/m³)</td>
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</tr>
<tr>
<td>USA OSHA</td>
<td>OSHA PEL (TWA) (ppm)</td>
<td>5 ppm</td>
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<table>
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</thead>
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<td>Not established</td>
<td></td>
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<tr>
<td>USA OSHA</td>
<td>Not established</td>
<td></td>
</tr>
</tbody>
</table>
Nitrogen (7727-37-9)

|                      | 
|----------------------|----------------------|
| **ACGIH**            | Not established      |
| **USA OSHA**         | Not established      |

### 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**: Provide readily accessible eye wash stations and safety showers. 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 whenever contact with product is possible. Select per OSHA 29 CFR 1910.132, 1910.136, and 1910.138.

**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 (e.g., an organic vapor cartridge). For emergencies or instances with unknown exposure levels, use a self-contained breathing apparatus (SCBA). Self-contained breathing apparatus (SCBA) or positive pressure airline with mask are to be used in oxygen-deficient atmospheres.

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

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>Physical state</td>
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<td>Colorless gas</td>
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<td>Colorless</td>
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<tr>
<td>Odor</td>
<td>Choking Irritating Pungent</td>
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<td>Relative evaporation rate (butyl acetate=1)</td>
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<td>Relative evaporation rate (ether=1)</td>
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<td>Melting point</td>
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<td>Freezing point</td>
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<td>Auto-ignition temperature</td>
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<tr>
<td>Decomposition temperature</td>
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<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
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<tr>
<td>Vapor pressure</td>
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<td>Relative vapor density at 20 °C</td>
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<tr>
<td>Relative density</td>
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<tr>
<td>Solubility</td>
<td>Water: No data available</td>
</tr>
<tr>
<td>Log Pow</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Log Kow</td>
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</tr>
</tbody>
</table>

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Viscosity, kinematic: Not applicable.
Viscosity, dynamic: Not applicable.
Explosive properties: Not applicable.
Oxidizing properties: None.
Explosion limits: No data available

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
No additional information available

10.4. Conditions to avoid
No additional information available

10.5. Incompatible materials
No additional information available

10.6. Hazardous decomposition products
No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity: Not classified

*Sulfur dioxide (7446-09-5)*

LC50 inhalation rat (ppm) 1260 ppm/4h
ATE US (gases) 1260.000 ppmV/4h

Skin corrosion/irritation: CAUSES SKIN IRRITATION.

pH: Not applicable.

Serious eye damage/irritation: CAUSES SERIOUS EYE IRRITATION.

pH: Not applicable.

Respiratory or skin sensitization: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

*Sulfur dioxide (7446-09-5)*

IARC group 3: Not classifiable

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
No additional information available
### 12.2. Persistence and degradability

**PTG-4004**

<table>
<thead>
<tr>
<th>Product</th>
<th>Persistence and degradability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfur dioxide (7446-09-5)</td>
<td>No ecological damage caused by this product.</td>
</tr>
<tr>
<td>Oxygen (7782-44-7)</td>
<td>Not applicable for inorganic gases.</td>
</tr>
<tr>
<td>Nitrogen (7727-37-9)</td>
<td>No ecological damage caused by this product.</td>
</tr>
</tbody>
</table>

### 12.3. Bioaccumulative potential

**PTG-4004**

<table>
<thead>
<tr>
<th>Product</th>
<th>Bioaccumulative potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfur dioxide (7446-09-5)</td>
<td>No ecological damage caused by this product.</td>
</tr>
<tr>
<td>Oxygen (7782-44-7)</td>
<td>No data available.</td>
</tr>
<tr>
<td>Nitrogen (7727-37-9)</td>
<td>No ecological damage caused by this product.</td>
</tr>
</tbody>
</table>

### 12.4. Mobility in soil

**PTG-4004**

<table>
<thead>
<tr>
<th>Product</th>
<th>Mobility in soil</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfur dioxide (7446-09-5)</td>
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</tr>
<tr>
<td>Oxygen (7782-44-7)</td>
<td>No data available.</td>
</tr>
<tr>
<td>Nitrogen (7727-37-9)</td>
<td>No data available.</td>
</tr>
</tbody>
</table>

### 12.5. Other adverse effects

**Effect on ozone layer**: None.

### 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

**In accordance with DOT**

- **Transport document description**: UN1956 Compressed gas, n.o.s., 2.2
- **UN-No.(DOT)**: UN1956
PTG-4004
Safety Data Sheet PTG-4004

Date of issue: 05/25/2015    Version: 1.0

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

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.

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
Sulfur dioxide (7446-09-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on the United States SARA Section 302
SARA Section 302 Threshold Planning Quantity (TPQ) : 500

15.2. International regulations
CANADA
Sulfur dioxide (7446-09-5)
Listed on the Canadian DSL (Domestic Substances List)
# PTG-4004

## Safety Data Sheet PTG-4004


**Date of issue:** 05/25/2015  
**Version:** 1.0

## Oxygen (7782-44-7)

Listed on the Canadian DSL (Domestic Substances List)

## Nitrogen (7727-37-9)

Listed on the Canadian DSL (Domestic Substances List)

## EU-Regulations

### Sulfur dioxide (7446-09-5)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

## 15.2.2. National regulations

### Sulfur dioxide (7446-09-5)

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

### PTG-4004

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<th>Carcinogens List</th>
<th>Developmental Toxicity</th>
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## Sulfur dioxide (7446-09-5)

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## Oxygen (7782-44-7)

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## Nitrogen (7727-37-9)

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### Sulfur dioxide (7446-09-5)

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<td>No</td>
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</table>

## EU-Regulations

### Sulfur dioxide (7446-09-5)

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)

## 15.3. US State regulations

### PTG-4004

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<thead>
<tr>
<th>Regulation</th>
<th>Carcinogens List</th>
<th>Developmental Toxicity</th>
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### Sulfur dioxide (7446-09-5)

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**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

**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. 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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**ISC Part Numbers:** 1810-1220, 1810-5817, 1810-9079, 1810-9346, 1810-8290, 1810-2222, 1810-4992, 1810-8126, 1810-9086, 1810-9225, 1810-9414

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**SDS US (GHS HazCom 2012) - Praxair**

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.