

### SECTION: 1. Product and company identification

#### 1.1. Product identifier

Product form : Mixture  
 Product name : PTG-4440  
 Formula : (0.0001 - 1 %) Ammonia, (0.0001 - 19.5 %) Oxygen in 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:                 | By:                       |
| Scientific Gas Australia Pty Ltd. | PortaGas (Praxair, Inc.)  |
| Unit 10, 12 Anderson Street       | 1202 E Sam Houston Pkwy S |
| Banksmeadow NSW, 2019 - Australia | Pasadena, TX 77503        |
| T PH 1300 880 531                 | T 281-928-6477            |

#### 1.4. Emergency telephone number

**Emergency number** : Onsite Emergencies: 1-800-645-4633; Australian Poison Information Centre: 13 11 26;  
 Australian Fire Brigade: 000  
 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

##### Classification (GHS-AU)

Press. Gas (Comp.) H280  
 Aquatic Acute 3 H402

#### 2.2. Label elements

##### GHS AU labelling

Hazard pictograms (GHS-AU) :



GHS04

Signal word (GHS-AU) :

WARNING

Hazard statements (GHS AU) :

H280 - CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED  
 H402 - HARMFUL TO AQUATIC LIFE  
 OSHA-H01 - MAY DISPLACE OXYGEN AND CAUSE RAPID SUFFOCATION.

Precautionary statements (GHS-AU) :

P273 - Avoid release to the environment.  
 P403 - Use and store only outdoors or in a well-ventilated place.  
 P501 - Dispose of contents/container in accordance with local/regional/national/international regulations. Contact supplier for any special requirements.  
 P261 - Avoid breathing gas, vapors  
 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.  
 CGA-MP01 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention.

**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**

| Name     | Product identifier | %           |
|----------|--------------------|-------------|
| Nitrogen | (CAS No) 7727-37-9 | 75.5 - 100  |
| Oxygen   | (CAS No) 7782-44-7 | 19.5 - 23.5 |
| Ammonia  | (CAS No) 7664-41-7 | 0.0001 - 1  |

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

- First-aid measures after inhalation : Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped. 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 : 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.
- HazChem code : 2TE.

**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. 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 their provincial and local fire regulations.
- Special protective equipment for fire fighters : Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. 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 : **DANGER: Toxic. Corrosive.** Wear a self-contained breathing apparatus and appropriate personal protective equipment (PPE). (gas tight, chemical-protective) Evacuate personnel to a safe area. Approach suspected leak area with caution. Remove all sources of ignition. Toxic, corrosive vapor can spread from spill. Ventilate area or move container to a well-ventilated area. Before entering the area, especially a confined area, check the atmosphere with an appropriate device.



# PTG-4440

## Safety Data Sheet PTG-4400

Prepared in accordance with the model Work Health and Safety Regulations

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### 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

Try to stop release. 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

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 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

| Nitrogen (7727-37-9) |                 |  |
|----------------------|-----------------|--|
| ACGIH                | Not established |  |
| USA OSHA             | Not established |  |
| Oxygen (7782-44-7)   |                 |  |
| ACGIH                | Not established |  |
| USA OSHA             | Not established |  |

| Ammonia (7664-41-7) |                                     |                      |
|---------------------|-------------------------------------|----------------------|
| ACGIH               | ACGIH TLV-TWA (ppm)                 | 25 ppm               |
| ACGIH               | ACGIH TLV-STEL (ppm)                | 35 ppm               |
| USA OSHA            | OSHA PEL (TWA) (mg/m <sup>3</sup> ) | 35 mg/m <sup>3</sup> |
| USA OSHA            | OSHA PEL (TWA) (ppm)                | 50 ppm               |
| AU SWA TWA PPM      | TWA (ppm)                           | 25 ppm               |
| AU SWA TWA MGM3     | TWA (mg/m <sup>3</sup> )            | 17 mg/m <sup>3</sup> |
| AU STEL PPM         | STEL (ppm)                          | 35 ppm               |
| AU SWA STEL MGM3    | STEL (mg/m <sup>3</sup> )           | 17 mg/m <sup>3</sup> |

### 8.2. Exposure controls

- Appropriate engineering controls : Provide adequate general and local exhaust ventilation. Alarm detectors should be used when toxic gases may be released. Product to be handled in a closed system. 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 AS/NZS 1336 and AS/NZS 1337.
- Skin and body protection : Wear work gloves and metatarsal shoes for cylinder handling. Protective equipment where needed. Select in accordance with AS/NZS 2161, AS/NZS 2210.1, and AS/NZS 4503.
- Respiratory protection : When workplace conditions warrant respirator use, follow a respiratory protection program that meets AS/NSZ 1715, AS/NSZ 1716, 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).
- Thermal hazard protection : Wear cold insulating gloves when transfilling or breaking transfer connections.
- Other information : Keep suitable chemically resistant protective clothing readily available for emergency use.

## SECTION 9: Physical and chemical properties

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

- Physical state : Gas
- Appearance : Colorless gas.
- Color : Colorless
- Odor : No data available
- Odor threshold : No data available
- pH : Not applicable.
- Relative evaporation rate (butyl acetate=1) : No data available
- 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
- Auto-ignition temperature : No data available

|                                 |                            |
|---------------------------------|----------------------------|
| Decomposition temperature       | : No data available        |
| Flammability (solid, gas)       | : No data available        |
| Vapor pressure                  | : Not applicable.          |
| Relative vapor density at 20 °C | : No data available        |
| Relative density                | : No data available        |
| Solubility                      | : Water: No data available |
| Log Pow                         | : Not applicable.          |
| Log Kow                         | : Not applicable.          |
| 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

Avoid moisture in installation systems.

### 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

| <b>Ammonia (7664-41-7)</b> |              |
|----------------------------|--------------|
| LC50 inhalation rat (ppm)  | 7338 ppm/1h  |
| ATE US (gases)             | 3669 ppmV/4h |

|  |                     |
|--|---------------------|
| 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 : HARMFUL TO AQUATIC LIFE.

| <b>Ammonia (7664-41-7)</b> |  |
|----------------------------|--|
| LC50 fish 1                | 0.44 mg/l (Exposure time: 96 h - Species: Cyprinus carpio)     |
| EC50 Daphnia 1             | 25.4 mg/l (Exposure time: 48 h - Species: Daphnia magna)       |
| LC50 fish 2                | 2.43 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus) |

**12.2. Persistence and degradability**

| <b>PTG-4440</b>               |  |
|-------------------------------|--|
| Persistence and degradability | No ecological damage caused by this product.         |
| <b>Nitrogen (7727-37-9)</b>   |  |
| Persistence and degradability | No ecological damage caused by this product.         |
| <b>Oxygen (7782-44-7)</b>     |  |
| Persistence and degradability | No ecological damage caused by this product.         |
| <b>Ammonia (7664-41-7)</b>    |  |
| Persistence and degradability | The substance is biodegradable. Unlikely to persist. |

**12.3. Bioaccumulative potential**

| <b>PTG-4440</b>             |   |
|-----------------------------|---|
| Log Pow                     | Not applicable.   |
| Log Kow                     | Not applicable.   |
| Bioaccumulative potential   | No ecological damage caused by this product.  |
| <b>Nitrogen (7727-37-9)</b> |   |
| Log Pow                     | Not applicable.   |
| Log Kow                     | Not applicable.   |
| Bioaccumulative potential   | No ecological damage caused by this product.  |
| <b>Oxygen (7782-44-7)</b>   |   |
| Log Pow                     | Not applicable.   |
| Log Kow                     | Not applicable.   |
| Bioaccumulative potential   | No ecological damage caused by this product.  |
| <b>Ammonia (7664-41-7)</b>  |   |
| Log Pow                     | Not applicable.   |
| Log Kow                     | Not applicable.   |
| Bioaccumulative potential   | Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9. |

**12.4. Mobility in soil**

| <b>PTG-4440</b>             |   |
|-----------------------------|---|
| Mobility in soil            | No data available.  |
| <b>Nitrogen (7727-37-9)</b> |   |
| Mobility in soil            | No data available.  |
| Ecology - soil              | No ecological damage caused by this product.  |
| <b>Oxygen (7782-44-7)</b>   |   |
| Mobility in soil            | No data available.  |
| Ecology - soil              | No ecological damage caused by this product.  |
| <b>Ammonia (7664-41-7)</b>  |   |
| Mobility in soil            | No data available.  |
| Ecology - soil              | Because of its high volatility, the product is unlikely to cause ground or water pollution. |

### 12.5. Other adverse effects

Other adverse effects : May cause pH changes in aqueous ecological systems.  
 Effect on ozone layer : None.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Do not attempt to dispose of residual or unused quantities. Return container to supplier.

## SECTION 14: Transport information

### Transport of Australian Dangerous Goods

UN-No. (ADG) : UN1956  
 Proper Shipping Name (ADG) : COMPRESSED GAS, N.O.S.  
 Class (ADG) : 2.2 - 2.2 - Class 2.2 - Non-flammable compressed gas  
 Danger labels (ADG) : 2.2 - Non-flammable compressed gas



Special provision (ADG) : 274

### 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 - 2.2 - Class 2.2 - Non-flammable compressed gas  
 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  
 HazChem code : 2TE.  
 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 - 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**

|  |   |
|--|---|
| <b>Ammonia (7664-41-7)</b>   |   |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory<br>Listed on the United States SARA Section 302<br>Subject to reporting requirements of United States SARA Section 313 |   |
| CERCLA RQ  | 100 lb  |
| SARA Section 302 Threshold Planning Quantity (TPQ)   | 500 lb  |
| SARA Section 311/312 Hazard Classes  | Immediate (acute) health hazard<br>Delayed (chronic) health hazard<br>Sudden release of pressure hazard<br>Fire hazard  |
| SARA Section 313 - Emission Reporting  | 1 % (includes anhydrous Ammonia and aqueous Ammonia from water dissociable Ammonium salts and other sources, 10% of total aqueous Ammonia is reportable under this listing) |

**15.2. International regulations**

**CANADA**

|   |
|---|
| <b>Nitrogen (7727-37-9)</b>                           |
| Listed on the Canadian DSL (Domestic Substances List) |

|   |
|---|
| <b>Oxygen (7782-44-7)</b>                             |
| Listed on the Canadian DSL (Domestic Substances List) |

|   |
|---|
| <b>Ammonia (7664-41-7)</b>                            |
| Listed on the Canadian DSL (Domestic Substances List) |

**EU-Regulations**

|  |
|--|
| <b>Ammonia (7664-41-7)</b>   |
| Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) |

**15.2.2. National regulations**





# PTG-4440

## Safety Data Sheet PTG-4400

Prepared in accordance with the model Work Health and Safety Regulations

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### Ammonia (7664-41-7)

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 Japanese ENCS (Existing & New Chemical Substances) inventory  
 Listed on the Japanese ISHL (Industrial Safety and Health Law)  
 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)  
 Japanese Poisonous and Deleterious Substances Control Law  
 Listed on the Canadian IDL (Ingredient Disclosure List)  
 Listed on INSQ (Mexican National Inventory of Chemical Substances)  
 Listed on the TCSI (Taiwan Chemical Substance Inventory)

### 15.3. US State regulations

#### PTG-4440()

|   |    |
|---|----|
| U.S. - California - Proposition 65 - Carcinogens List               | No |
| U.S. - California - Proposition 65 - Developmental Toxicity         | No |
| U.S. - California - Proposition 65 - Reproductive Toxicity - Female | No |
| U.S. - California - Proposition 65 - Reproductive Toxicity - Male   | No |

#### Nitrogen (7727-37-9)

|   |   |   |   |                                   |
|---|---|---|---|-----------------------------------|
| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | Non-significant risk level (NSRL) |
| No  | No  | No  | No  |                                   |

#### Oxygen (7782-44-7)

|   |   |   |   |                                   |
|---|---|---|---|-----------------------------------|
| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | Non-significant risk level (NSRL) |
| No  | No  | No  | No  |                                   |

#### Ammonia (7664-41-7)

|   |   |   |   |                                   |
|---|---|---|---|-----------------------------------|
| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | Non-significant risk level (NSRL) |
| No  | No  | No  | No  |                                   |

#### 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

#### 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

#### Ammonia (7664-41-7)

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