Inert Gas(es) (AR, HE, NE and/or NI) - Carbon Dioxide 0.00001%-47%

Safety Data Sheet P-18-2143


Date of issue: 07/01/2015    Supersedes: 05/28/2015

SECTION: 1. Product and company identification

1.1. Product identifier
Product form : Mixture
Other means of identification : Mixture of Carbon Dioxide and/or Argon, Helium, Neon, 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.

1.3. Details of the supplier of the safety data sheet
Praxair, Inc.
39 Old Ridgebury Road
Danbury, CT 06810-5113 - USA
T 1-800-772-9247 (1-800-PRAXAIR) - F 1-716-879-2146
www.praxair.com

1.4. Emergency telephone number
Emergency number : Onsite Emergency: 1-800-645-4633

CHEMTREC, 24hr/day 7days/week
— Within USA: 1-800-424-9300, Outside USA: 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

2.2. Label elements
GHS-US labeling
Hazard pictograms (GHS-US) :

![GHS04]

Signal word (GHS-US) : WARNING
Hazard statements (GHS-US) :
H280 - CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED
CGA-HG03 - MAY INCREASE RESPIRATION AND HEART RATE.
OSHA-H01 - MAY DISPLACE OXYGEN AND CAUSE RAPID SUFFOCATION.

Precautionary statements (GHS-US) :
P261 - Avoid breathing gas
CGA-PG02 - Protect from sunlight when ambient temperature exceeds 52°C (125°F).
P271+P403 - Use and store only outdoors or in a well-ventilated place.

2.3. Other hazards
Other hazards not contributing to the classification : Asphyxiant in high concentrations.

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

SECTION 3: Composition/information on ingredients

3.1. Substance
Not applicable

EN (English US)    SDS ID: P-18-2143  1/10

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Safety Data Sheet P-18-2143
Date of issue: 07/01/2015    Supersedes: 05/28/2015

3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Helium</td>
<td>(CAS No) 7440-59-7</td>
<td>0 - 99.99999</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>(CAS No) 7727-37-9</td>
<td>0 - 99.99999</td>
</tr>
<tr>
<td>Neon</td>
<td>(CAS No) 7440-01-9</td>
<td>0 - 99.99999</td>
</tr>
<tr>
<td>Argon</td>
<td>(CAS No) 7440-37-1</td>
<td>0 - 99.99999</td>
</tr>
<tr>
<td>Carbon dioxide</td>
<td>(CAS No) 124-38-9</td>
<td>0.00001 - 47</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 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.

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

No additional information available

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

None.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

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

Protection during firefighting: Compressed gas: asphyxiant. Suffocation hazard by lack of oxygen.

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

Other information: Containers are equipped with a pressure relief device. (Exceptions may exist where authorized by DOT.).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

No additional information available
6.4. Reference to other sections

See also sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well-ventilated place. Store and use with adequate ventilation. Store only where temperature will not exceed 125°F (52°C). Firmly secure containers upright to keep them from falling or being knocked over. Install valve protection cap, if provided, firmly in place by hand. Store full and empty containers separately. Use a first-in, first-out inventory system to prevent storing full containers for long periods.

OTHER PRECAUTIONS FOR 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

<table>
<thead>
<tr>
<th></th>
<th>ACGIH TLV-TWA (ppm)</th>
<th>ACGIH TLV-STE (ppm)</th>
<th>USA OSHA PEL (TWA) (mg/m³)</th>
<th>USA OSHA PEL (TWA) (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon dioxide (124-38-9)</td>
<td></td>
<td></td>
<td>9000 mg/m³</td>
<td>5000 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Helium (7440-59-7)</td>
<td>ACGIH</td>
<td>Not established</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>USA OSHA</td>
<td>Not established</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nitrogen (7727-37-9)</td>
<td>ACGIH</td>
<td>Not established</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>USA OSHA</td>
<td>Not established</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Neon (7440-01-9)</td>
<td>ACGIH</td>
<td>Not established</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>USA OSHA</td>
<td>Not established</td>
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</table>

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Safety Data Sheet P-18-2143
Date of issue: 07/01/2015    Supersedes: 05/28/2015

<table>
<thead>
<tr>
<th>Argon (7440-37-1)</th>
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</tr>
</thead>
<tbody>
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<td>ACGIH</td>
<td>Not established</td>
</tr>
<tr>
<td>USA OSHA</td>
<td>Not established</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

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

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

Skin and body protection: Wear metatarsal shoes 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.

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 transferring 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>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Gas</td>
</tr>
<tr>
<td>Color</td>
<td>Colorless</td>
</tr>
<tr>
<td>Odor</td>
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</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Relative evaporation rate (butyl acetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative evaporation rate (ether=1)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Melting point</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Relative vapor density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Solubility</td>
<td>Water: No data available</td>
</tr>
<tr>
<td>Log Pow</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Log Kow</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>None.</td>
</tr>
<tr>
<td>Explosion limits</td>
<td>No data available</td>
</tr>
</tbody>
</table>
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Safety Data Sheet P-18-2143
Date of issue: 07/01/2015  Supersedes: 05/28/2015

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
Skin corrosion/irritation : Not classified
pH: Not applicable.
Serious eye damage/irritation : Not classified
pH: Not applicable.
Respiratory or skin sensilitation : 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
No additional information available

12.2. Persistence and degradability

<table>
<thead>
<tr>
<th>Inert Gas(es) (AR, HE, NE and/or NI)- Carbon Dioxide 0.00001%-47%</th>
<th>Persistence and degradability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Persistence and degradability</td>
<td>No ecological damage caused by this product.</td>
</tr>
<tr>
<td>Carbon dioxide (124-38-9)</td>
<td>Persistence and degradability</td>
</tr>
<tr>
<td>Helium (7440-59-7)</td>
<td>Persistence and degradability</td>
</tr>
<tr>
<td>Nitrogen (7727-37-9)</td>
<td>Persistence and degradability</td>
</tr>
</tbody>
</table>
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Safety Data Sheet P-18-2143
Date of issue: 07/01/2015    Supersedes: 05/28/2015

<table>
<thead>
<tr>
<th>Substance</th>
<th>Persistence and degradability</th>
<th>Bioaccumulative potential</th>
<th>Ecology - soil</th>
</tr>
</thead>
<tbody>
<tr>
<td>Neon (7440-01-9)</td>
<td>No ecological damage caused by this product.</td>
<td>Not applicable.</td>
<td>No ecological damage caused by this product.</td>
</tr>
<tr>
<td>Argon (7440-37-1)</td>
<td>No ecological damage caused by this product.</td>
<td>Not applicable.</td>
<td>No ecological damage caused by this product.</td>
</tr>
</tbody>
</table>

**12.3. Bioaccumulative potential**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Log Pow</th>
<th>Log Kow</th>
<th>Bioaccumulative potential</th>
<th>Ecology - soil</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inert Gas(es) (AR, HE, NE and/or NI) - Carbon Dioxide 0.00001%-47%</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>No ecological damage caused by this product.</td>
<td>No ecological damage caused by this product.</td>
</tr>
<tr>
<td>Carbon dioxide (124-38-9)</td>
<td>(no bioaccumulation)</td>
<td>0.83</td>
<td>Not applicable.</td>
<td>No ecological damage caused by this product.</td>
</tr>
<tr>
<td>Helium (7440-59-7)</td>
<td>Not applicable for inorganic gases.</td>
<td>Not applicable.</td>
<td>No ecological damage caused by this product.</td>
<td>No ecological damage caused by this product.</td>
</tr>
<tr>
<td>Nitrogen (7727-37-9)</td>
<td>Not applicable for inorganic gases.</td>
<td>Not applicable.</td>
<td>No ecological damage caused by this product.</td>
<td>No ecological damage caused by this product.</td>
</tr>
<tr>
<td>Neon (7440-01-9)</td>
<td>Not applicable for inorganic gases.</td>
<td>Not applicable.</td>
<td>No ecological damage caused by this product.</td>
<td>No ecological damage caused by this product.</td>
</tr>
<tr>
<td>Argon (7440-37-1)</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>No ecological damage caused by this product.</td>
<td>No ecological damage caused by this product.</td>
</tr>
</tbody>
</table>

**12.4. Mobility in soil**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Mobility in soil</th>
<th>Ecology - soil</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inert Gas(es) (AR, HE, NE and/or NI) - Carbon Dioxide 0.00001%-47%</td>
<td>No data available.</td>
<td>No ecological damage caused by this product.</td>
</tr>
<tr>
<td>Carbon dioxide (124-38-9)</td>
<td>No data available.</td>
<td>No ecological damage caused by this product.</td>
</tr>
<tr>
<td>Helium (7440-59-7)</td>
<td>No data available.</td>
<td>No ecological damage caused by this product.</td>
</tr>
<tr>
<td>Nitrogen (7727-37-9)</td>
<td>No data available.</td>
<td>No ecological damage caused by this product.</td>
</tr>
<tr>
<td>Neon (7440-01-9)</td>
<td>No data available.</td>
<td>No ecological damage caused by this product.</td>
</tr>
<tr>
<td>Argon (7440-37-1)</td>
<td>No data available.</td>
<td>No ecological damage caused by this product.</td>
</tr>
</tbody>
</table>
12.5. Other adverse effects

Effect on ozone layer : None.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Do not attempt to dispose of residual or unused quantities. Return container to supplier.
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.
UN-No.(DOT) : UN1956
Proper Shipping Name (DOT) : Compressed gas, n.o.s.
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

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

Air transport

UN-No. (IATA) : 1956
Proper Shipping Name (IATA) : COMPRESSED GAS, N.O.S.
Class (IATA) : 2

SECTION 15: Regulatory information

15.1. US Federal regulations

No additional information available

15.2. International regulations

CANADA

Carbon dioxide (124-38-9)
Listed on the Canadian DSL (Domestic Substances List)

Helium (7440-59-7)
Listed on the Canadian DSL (Domestic Substances List)
**Inert Gas(es) (AR, HE, NE and/or NI) - Carbon Dioxide 0.00001%-47%**

Safety Data Sheet P-18-2143  

Date of issue: 07/01/2015  
Supersedes: 05/28/2015

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**Helium (7440-59-7)**

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

**Neon (7440-01-9)**  
Listed on the Canadian DSL (Domestic Substances List)

**Argon (7440-37-1)**  
Listed on the Canadian DSL (Domestic Substances List)

### EU-Regulations

**15.2. National regulations**  
No additional information available

**15.3. US State regulations**

<table>
<thead>
<tr>
<th>Inert Gas(es) (AR, HE, NE and/or NI) - Carbon Dioxide 0.00001%-47%()</th>
<th>U.S. - California - Proposition 65 - Carcinogens List</th>
<th>U.S. - California - Proposition 65 - Developmental Toxicity</th>
<th>U.S. - California - Proposition 65 - Reproductive Toxicity - Female</th>
<th>U.S. - California - Proposition 65 - Reproductive Toxicity - Male</th>
<th>No significant risk level (NSRL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Helium (7440-59-7)</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Nitrogen (7727-37-9)</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Neon (7440-01-9)</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

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**Carbon dioxide (124-38-9)**

<table>
<thead>
<tr>
<th>Inert Gas(es) (AR, HE, NE and/or NI) - Carbon Dioxide 0.00001%-47%()</th>
<th>U.S. - California - Proposition 65 - Carcinogens List</th>
<th>U.S. - California - Proposition 65 - Developmental Toxicity</th>
<th>U.S. - California - Proposition 65 - Reproductive Toxicity - Female</th>
<th>U.S. - California - Proposition 65 - Reproductive Toxicity - Male</th>
<th>No significant risk level (NSRL)</th>
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</thead>
<tbody>
<tr>
<td>Helium (7440-59-7)</td>
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<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Nitrogen (7727-37-9)</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Neon (7440-01-9)</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

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Date of issue: 07/01/2015    Supersedes: 05/28/2015

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**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 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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Inert Gas(es) (AR, HE, NE and/or NI) - Carbon Dioxide 0.00001%-47%  
Safety Data Sheet P-18-2143  
Date of issue: 07/01/2015  
Supersedes: 05/28/2015

SDS US (GHS HazCom 2012) - PDI

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.