# SECTION 1: Identification

## 1.1. Product identifier

- **Product form**: Mixture
- **Name**: Nitrogen/Carbon Dioxide Mixture
- **Other means of identification**: Extendapak Food Gases EX 10 to 29, 80 and 89, Beer Gas, Draft Gas
- **Product group**: Standard Mixtures

## 1.2. Recommended use and restrictions on use

- **Recommended uses and restrictions**: Industrial use, Food applications, Use as directed

## 1.3. Supplier

Praxair Canada Inc.
1200 – 1 City Centre Drive
Mississauga - Canada L5B 1M2
T 1-905-803-1600 - F 1-905-803-1682
www.praxair.ca

## 1.4. Emergency telephone number

- **Emergency number**: 1-800-363-0042
  Call emergency number 24 hours a day only for spills, leaks, fire, exposure, or accidents involving this product.
  For routine information, contact your supplier or Praxair sales representative.

# SECTION 2: Hazard identification

## 2.1. Classification of the substance or mixture

**GHS-CA classification**
- Simple asphyxiant: H380
- Compressed gas: H280

## 2.2. GHS Label elements, including precautionary statements

**GHS-CA labelling**

- **Hazard pictograms**: ![GHS04]
- **Signal word**: WARNING

- **Hazard statements**: CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED; MAY DISPLACE OXYGEN AND CAUSE RAPID SUFFOCATION; MAY INCREASE RESPIRATION AND HEART RATE

- **Precautionary statements**: Do not handle until all safety precautions have been read and understood. Use and store only outdoors or in a well-ventilated area. Protect from sunlight when ambient temperature exceeds 52°C (125°F). Use a backflow preventive device in the piping. Close valve after each use and when empty. Use only with equipment rated for cylinder pressure.

## 2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.1. Substances
Not applicable

3.2. Mixtures

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS No.</th>
<th>% (Vol)</th>
<th>Common Name (synonyms)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitrogen</td>
<td>(CAS No) 7727-37-9</td>
<td>0.0001 - 99.9999</td>
<td>Nitrogen (liq.) / Nitrogen gas / Nitrogen, liquefied / Nitrogen, compressed / NITROGEN</td>
</tr>
<tr>
<td>Carbon dioxide</td>
<td>(CAS No) 124-38-9</td>
<td>0.0001 - 99.9999</td>
<td>CARBON DIOXIDE</td>
</tr>
</tbody>
</table>

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.

First-aid measures after skin contact
Wash with plenty of soap and water. For exposure, immediately warm frostbite area with warm water not to exceed 105°F (41°C). Water temperature should be tolerable to normal skin. Maintain skin warming for at least 15 minutes or until normal coloring and sensation have returned to the affected area. In case of massive exposure, remove clothing while showering with warm water. Seek medical evaluation and treatment as soon as possible.

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. Get immediate medical attention.

First-aid measures after ingestion
Ingestion is not considered a potential route of exposure.

4.2. Most important symptoms and effects (acute and delayed)
No additional information available

4.3. Immediate medical attention and special treatment, if necessary
Other medical advice or treatment
None.

SECTION 5: Fire-fighting measures

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

5.2. Unsuitable extinguishing media
No additional information available

5.3. Specific hazards arising from the hazardous product
Reactivity
No reactivity hazard other than the effects described in sub-sections below.

Reactivity in case of fire
No reactivity hazard other than the effects described in sub-sections below.

5.4. Special protective equipment and precautions for fire-fighters
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 their provincial and local fire code regulations.

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

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

Specific methods
Use fire control measures appropriate for the surrounding fire. Exposure to fire and heat radiation may cause gas containers to rupture. Cool endangered containers with water spray jet from a protected position. Prevent water used in emergency cases from entering sewers and drainage systems

Stop flow of product if safe to do so

Use water spray or fog to knock down fire fumes if possible.
SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures: Evacuate area. Ensure adequate air ventilation. Wear self-contained breathing apparatus when entering area unless atmosphere is proven to be safe. Stop leak if safe to do so.

6.2. Methods and materials for containment and cleaning up

6.3. Reference to other sections

For further information refer to section 8: Exposure controls/personal protection

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.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Carbon dioxide (124-38-9)</th>
<th>USA - ACGIH</th>
<th>USA - ACGIH</th>
<th>USA - OSHA</th>
<th>USA - OSHA</th>
<th>Canada (Quebec)</th>
<th>Canada (Quebec)</th>
<th>Canada (Quebec)</th>
<th>Canada (Quebec)</th>
<th>Alberta</th>
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<th>British Columbia</th>
<th>British Columbia</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ACGIH TLV-TWA (ppm)</td>
<td>5000 ppm</td>
<td>ACGIH TLV-STEL (ppm)</td>
<td>30000 ppm</td>
<td>OSHA PEL (TWA) (mg/m³)</td>
<td>9000 mg/m³</td>
<td>OSHA PEL (TWA) (ppm)</td>
<td>5000 ppm</td>
<td>VEC (mg/m³)</td>
<td>54000 mg/m³</td>
<td>VEC (ppm)</td>
<td>30000 ppm</td>
<td>VEMP (mg/m³)</td>
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Nitrogen/Carbon Dioxide Mixture
Safety Data Sheet E-6231

according to the Hazardous Products Regulation  (February 11, 2015)
Date of issue: 10-15-1979     Revision date: 08-23-2016     Supersedes: 10-15-2013

<table>
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<td>OEL STEL (ppm)</td>
</tr>
<tr>
<td>Manitoba</td>
<td>OEL TWA (ppm)</td>
</tr>
<tr>
<td>New Brunswick</td>
<td>OEL STEL (mg/m³)</td>
</tr>
<tr>
<td>New Brunswick</td>
<td>OEL STEL (ppm)</td>
</tr>
<tr>
<td>New Brunswick</td>
<td>OEL TWA (mg/m³)</td>
</tr>
<tr>
<td>New Brunswick</td>
<td>OEL TWA (ppm)</td>
</tr>
<tr>
<td>New Foundland &amp; Labrador</td>
<td>OEL STEL (ppm)</td>
</tr>
<tr>
<td>New Foundland &amp; Labrador</td>
<td>OEL TWA (ppm)</td>
</tr>
<tr>
<td>Nova Scotia</td>
<td>OEL STEL (ppm)</td>
</tr>
<tr>
<td>Nova Scotia</td>
<td>OEL TWA (ppm)</td>
</tr>
<tr>
<td>Nunavut</td>
<td>OEL STEL (mg/m³)</td>
</tr>
<tr>
<td>Nunavut</td>
<td>OEL STEL (ppm)</td>
</tr>
<tr>
<td>Nunavut</td>
<td>OEL TWA (mg/m³)</td>
</tr>
<tr>
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<td>OEL TWA (ppm)</td>
</tr>
<tr>
<td>Northwest Territories</td>
<td>OEL STEL (ppm)</td>
</tr>
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<td>Northwest Territories</td>
<td>OEL TWA (ppm)</td>
</tr>
<tr>
<td>Ontario</td>
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</tr>
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<td>Ontario</td>
<td>OEL TWA (ppm)</td>
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<td>Prince Edward Island</td>
<td>OEL STEL (ppm)</td>
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<td>Prince Edward Island</td>
<td>OEL TWA (ppm)</td>
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<tr>
<td>Québec</td>
<td>VECD (mg/m³)</td>
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<td>VECD (ppm)</td>
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<td>VEMP (ppm)</td>
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<td>OEL TWA (ppm)</td>
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<tr>
<td>Yukon</td>
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<tr>
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<td>OEL STEL (ppm)</td>
</tr>
<tr>
<td>Yukon</td>
<td>OEL TWA (mg/m³)</td>
</tr>
<tr>
<td>Yukon</td>
<td>OEL TWA (ppm)</td>
</tr>
</tbody>
</table>

8.2. Appropriate engineering controls
Appropriate engineering controls : Oxygen detectors should be used when asphyxiating gases may be released. Systems under pressure should be regularly checked for leakages. Provide adequate general and local exhaust ventilation. Consider work permit system e.g. for maintenance activities.

8.3. Individual protection measures/Personal protective equipment


Hand protection : Wear working gloves when handling gas containers.

Eye protection : Wear safety glasses with side shields. Select in accordance with the current CSA standard Z94.3, "Industrial Eye and Face Protection", and any provincial regulations, local bylaws or guidelines.

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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: None necessary.

Environmental exposure controls: Refer to local regulations for restriction of emissions to the atmosphere. See section 13 for specific methods for waste gas treatment.

Other information: Other protection: Safety shoes for general handling at customer sites. Metatarsal shoes and cuffless trousers for cylinder handling at packaging and filling plants. Select in accordance with the current CSA standard Z195, "Protective Foot Wear", and any provincial regulations, local bylaws or guidelines. For working with flammable and oxidizing materials, consider the use of flame resistant anti-static safety clothing.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Gas
Appearance: Colorless gas.
Colour: Colourless.
Odour: Odourless.
Odour threshold: No data available
pH: Not applicable.
pH solution: No data available
Relative evaporation rate (butylacetate=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
Vapour pressure: Not applicable.
Vapour pressure at 50 °C: No data available
Relative vapour density at 20 °C: No data available
Relative density: No data available
Relative density of saturated gas/air mixture: No data available
Density: No data available
Relative gas density: 1 - 1.5
Solubility: Water: No data available
Log Pow: Not applicable.
Log Kow: Not applicable.
Viscosity, kinematic: Not applicable.
Viscosity, dynamic: Not applicable.
Viscosity, kinematic (calculated value) (40 °C): No data available
Explosive properties: Not applicable.
Oxidizing properties: None.
Flammability (solid, gas): Non flammable

9.2. Other information

Gas group: Compressed gas
Nitrogen/Carbon Dioxide Mixture
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according to the Hazardous Products Regulation (February 11, 2015)
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SECTION 10: Stability and reactivity

10.1. Reactivity
Reactivity: No reactivity hazard other than the effects described in sub-sections below.
Chemical stability: Stable under normal conditions.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| Acute toxicity (oral) | Not classified |
| Acute toxicity (dermal) | Not classified |
| Acute toxicity (inhalation) | Not classified |

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 ecological damage caused by this product.

12.2. Persistence and degradability

<table>
<thead>
<tr>
<th>Nitrogen/Carbon Dioxide Mixture</th>
<th>Persistence and degradability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitrogen/Carbon Dioxide Mixture</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>Nitrogen (7727-37-9)</td>
<td>Persistence and degradability</td>
</tr>
</tbody>
</table>

12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Nitrogen/Carbon Dioxide Mixture</th>
<th>Bioaccumulative potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitrogen/Carbon Dioxide Mixture</td>
<td>No ecological damage caused by this product.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Carbon dioxide (124-38-9)</th>
<th>Bioaccumulative potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCF fish 1</td>
<td>(no bioaccumulation)</td>
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<tr>
<td>Log Pow</td>
<td>0.83</td>
</tr>
<tr>
<td>Log Kow</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Bioaccumulative potential</td>
<td>No ecological damage caused by this product.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Nitrogen (7727-37-9)</th>
<th>Log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Log Pow</td>
<td>Not applicable for inorganic gases.</td>
</tr>
</tbody>
</table>
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Nitrogen (7727-37-9)
| Log Kow | Not applicable. |
| Bioaccumulative potential | No ecological damage caused by this product. |

12.4. Mobility in soil

| Nitrogen/Carbon Dioxide Mixture | No data available. |
| Mobility in soil | |
| Log Pow | Not applicable. |
| Log Kow | Not applicable. |

Carbon dioxide (124-38-9)
| Mobility in soil | No data available. |
| Log Pow | 0.83 |
| Log Kow | Not applicable. |

12.5. Other adverse effects

Effect on the ozone layer: None

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods: May be vented to atmosphere in a well ventilated place. Consult supplier for specific recommendations. Do not discharge into any place where its accumulation could be dangerous. Contact supplier if guidance is required.

Waste disposal recommendations: Dispose of contents/container in accordance with local/regional/national/international regulations. Contact supplier for any special requirements.

SECTION 14: Transport information

14.1. Basic shipping description

In accordance with TDG
TDG

UN-No. (TDG): UN1956
TDG Primary Hazard Classes: 2.2 - Class 2.2 - Non-Flammable, Non-Toxic Gas.
Proper shipping name: COMPRESSED GAS, N.O.S. (NITROGEN; CARBON DIOXIDE)

Explosive Limit and Limited Quantity Index: 0.125 L
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index: 75 L

14.3. Air and sea transport

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

IATA
UN-No. (IATA): 1956
Proper Shipping Name (IATA): Compressed gas, n.o.s.
Class (IATA): 2
# Nitrogen/Carbon Dioxide Mixture

**Safety Data Sheet**

according to the Hazardous Products Regulation  (February 11, 2015)

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## SECTION 15: Regulatory information

### 15.1. National regulations

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

- Listed on the Canadian DSL (Domestic Substances List)

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

- Listed on the Canadian DSL (Domestic Substances List)

### 15.2. International regulations

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

- 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 EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
- 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 United States TSCA (Toxic Substances Control Act) inventory
- Listed on INSQ (Mexican national Inventory of Chemical Substances)
- Listed on CICR (Turkish Inventory and Control of Chemicals)

**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 EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
- 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 United States TSCA (Toxic Substances Control Act) inventory
- Listed on INSQ (Mexican national Inventory of Chemical Substances)

## SECTION 16: Other information

**Date of issue** : 15/10/1979

**Revision date** : 23/08/2016

**Supersedes** : 15/10/2013

**Indication of changes** :

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 Canada 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 Canada Inc, it is the user's obligation to determine the conditions of safe use of the product.

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NFPA health hazard: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.
NFPA fire hazard: 0 - Materials that will not burn.
NFPA reactivity: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
NFPA specific hazard: SA - This denotes gases which are simple asphyxiants.

HMIS III Rating
Health: 1 Slight Hazard - Irritation or minor reversible injury possible
Flammability: 0 Minimal Hazard - Materials that will not burn
Physical: 3 Serious Hazard - Materials that may form explosive mixtures with water and are capable of detonation or explosive reaction in the presence of a strong initiating source. Materials may polymerize, decompose, self-react, or undergo other chemical change at normal temperature and pressure with moderate risk of explosion

SDS Canada (GHS) - 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.