SECTION 1. Product and company identification

1.1. Product identifier
Product form : Mixture
Name : NI - Carbon Monoxide 1%-7.8%, Sulfur Dioxide 0.00001%-0.9999%
Other means of identification : Mixture of Carbon Monoxide, Sulfur Dioxide, and 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, 24 hr/day 7 days/week
— Within USA: 1-800-424-9300, Outside USA: 001-703-527-3887
(collect calls accepted, Contract 17729)

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture
GHS-US classification
Compressed gas H280
Repr. 1A H360
STOT RE 1 H372

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

Signal word (GHS-US) : DANGER
Hazard statements (GHS-US) : H280 - CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED
H360 - May damage fertility or the unborn child
H372 - CAUSES DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE
OSHA-H01 - MAY DISPLACE OXYGEN AND CAUSE RAPID SUFFOCATION
CGA-HG10 - ASPHYXIATING EVEN WITH ADEQUATE OXYGEN
Precautionary statements (GHS-US) : P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P260 - Do not breathe gas/vapours
P264 - Wash exposed skin thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P308+P313 - If exposed or concerned: Get medical advice/attention
P314 - Get medical advice/attention if you feel unwell
P405 - Store locked up

EN (English) SDS ID: P-18-0666
NI - Carbon Monoxide 1%-7.8%, Sulfur Dioxide 0.00001%-0.99999%

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P501 - Dispose of contents/container in accordance with container Supplier/owner instructions
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: Chemical asphyxiant. Exposure to low concentrations for extended periods may result in dizziness or unconsciousness, and may lead to death

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 | 91.20001 - 98.99999
Carbon monoxide | (CAS No) 630-08-0 | 1 - 7.8
Sulfur dioxide | (CAS No) 7446-09-5 | 0.00001 - 0.99999

SECTION 4: First aid measures

4.1. Description of first aid measures

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

First-aid measures after 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

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

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.

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

Try to stop release. 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

No additional information available

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 cylinders, 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>Carbon monoxide (630-08-0)</th>
<th>ACGIH TLV-TWA (ppm)</th>
<th>USA OSHA OSHA PEL (TWA) (mg/m³)</th>
<th>USA OSHA OSHA PEL (TWA) (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>25 ppm</td>
<td>55 mg/m³</td>
<td>50 ppm</td>
</tr>
<tr>
<td>USA OSHA</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
NI - Carbon Monoxide 1%-7.8%, Sulfur Dioxide 0.00001%-0.99999%

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

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<thead>
<tr>
<th></th>
<th>ACGIH</th>
<th>ACGIH TLV- STEL (ppm)</th>
<th>USA OSHA</th>
<th>OSHA PEL (TWA) (mg/m³)</th>
<th>USA OSHA</th>
<th>OSHA PEL (TWA) (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>0.25 ppm</td>
<td></td>
<td>13 mg/m³</td>
<td></td>
<td>5 ppm</td>
</tr>
</tbody>
</table>

### Nitrogen (7727-37-9)

<table>
<thead>
<tr>
<th></th>
<th>ACGIH</th>
<th>Not established</th>
<th>USA OSHA</th>
<th>Not established</th>
</tr>
</thead>
</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 with side shields.
- **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.
- **Respiratory protection**: When workplace conditions warrant respirator use, follow a respiratory protection program that meets OSHA 29 CFR 1910.134, ANSI Z88.2, or MSHA 30 CFR 72.710 (where applicable). Use an air-supplied or air-purifying cartridge if the action level is exceeded. Ensure that the respirator has the appropriate protection factor for the exposure level. If cartridge type respirators are used, the cartridge must be appropriate for the chemical exposure. For emergencies or instances with unknown exposure levels, use a self-contained breathing apparatus (SCBA).
- **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

- **Physical state**: Gas
- **Colour**: Colourless
- **Odour**: No data available
- **Odour threshold**: No data available
- **pH**: Not applicable.
- **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
- **Flammability (solid, gas)**: No data available
- **Vapour pressure**: Not applicable.
- **Relative vapour 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.
### 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.

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

- **LC50 inhalation rat (ppm)**: 3760 ppm/1h
- **ATE US (gases)**: 1880.000 ppmv/4h

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

- **LC50 inhalation rat (ppm)**: 1260 ppm/4h
- **ATE US (gases)**: 1260.000 ppmv/4h

**Skin corrosion/irritation**

Not classified.

**Serious eye damage/irritation**

- pH: Not applicable.

**Respiratory or skin sensitisation**

Not classified.

**Germ cell mutagenicity**

Not classified.

**Carcinogenicity**

Not classified.

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

- **IARC group**: 3 - Not classifiable
- **Reproductive toxicity**: May damage fertility or the unborn child.
- **Specific target organ toxicity (single exposure)**: Not classified
- **Specific target organ toxicity (repeated exposure)**: CAUSES DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE.
- **Aspiration hazard**: Not classified.

### SECTION 12: Ecological information

**12.1. Toxicity**

No additional information available.
12.2. Persistence and degradability

<table>
<thead>
<tr>
<th></th>
<th>NI - Carbon Monoxide 1%-7.8%, Sulfur Dioxide 0.00001%-0.99999%</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Persistence</strong></td>
<td>No ecological damage caused by this product.</td>
</tr>
<tr>
<td><strong>Degradability</strong></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Sulfur dioxide (7446-09-5)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Persistence</strong></td>
<td>Not applicable for inorganic gases.</td>
</tr>
<tr>
<td><strong>Degradability</strong></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Nitrogen (7727-37-9)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Persistence</strong></td>
<td>No ecological damage caused by this product.</td>
</tr>
<tr>
<td><strong>Degradability</strong></td>
<td></td>
</tr>
</tbody>
</table>

12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th></th>
<th>NI - Carbon Monoxide 1%-7.8%, Sulfur Dioxide 0.00001%-0.99999%</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Log Pow</strong></td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>Log Kow</strong></td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>Bioaccumulative potential</strong></td>
<td>No data available.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Carbon monoxide (630-08-0)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Log Kow</strong></td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

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<tr>
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<th>Sulfur dioxide (7446-09-5)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BCF fish 1</strong></td>
<td>(no bioaccumulation expected)</td>
</tr>
<tr>
<td><strong>Log Pow</strong></td>
<td>Not applicable for inorganic gases.</td>
</tr>
<tr>
<td><strong>Bioaccumulative potential</strong></td>
<td>No data available.</td>
</tr>
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<td><strong>Bioaccumulative potential</strong></td>
<td>No data available.</td>
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</tbody>
</table>

12.4. Mobility in soil

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<thead>
<tr>
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<th>NI - Carbon Monoxide 1%-7.8%, Sulfur Dioxide 0.00001%-0.99999%</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mobility in soil</strong></td>
<td>No data available.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Carbon monoxide (630-08-0)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mobility in soil</strong></td>
<td>No data available.</td>
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<tr>
<th></th>
<th>Sulfur dioxide (7446-09-5)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ecology - soil</strong></td>
<td>Because of its high volatility, the product is unlikely to cause ground or water pollution.</td>
</tr>
</tbody>
</table>

<table>
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<tr>
<th></th>
<th>Nitrogen (7727-37-9)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mobility in soil</strong></td>
<td>No data available.</td>
</tr>
<tr>
<td><strong>Ecology - soil</strong></td>
<td>No ecological damage caused by this product.</td>
</tr>
</tbody>
</table>

12.5. Other adverse effects

|                  | Effect on the ozone layer : None                             |

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| 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

<table>
<thead>
<tr>
<th>Transport document description</th>
<th>UN1956 Compressed gas, n.o.s., 2.2</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN-No.(DOT)</td>
<td>UN1956</td>
</tr>
<tr>
<td>Proper Shipping Name (DOT)</td>
<td>Compressed gas, n.o.s.</td>
</tr>
</tbody>
</table>
NI - Carbon Monoxide 1%-7.8%, Sulfur Dioxide 0.00001%-0.99999%
Safety Data Sheet P-18-0666
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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
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
Carbon monoxide (630-08-0)
Listed on the Canadian DSL (Domestic Substances List)

Sulfur dioxide (7446-09-5)
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

EN (English) SDS ID: P-18-0666 7/9

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### 15.3. US State regulations

<table>
<thead>
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<th>NI - Carbon Monoxide 1%-7.8%, Sulfur Dioxide 0.00001%-0.99999%()</th>
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<tbody>
<tr>
<td><strong>U.S. - California - Proposition 65 - Carcinogens List</strong></td>
</tr>
<tr>
<td><strong>U.S. - California - Proposition 65 - Developmental Toxicity</strong></td>
</tr>
<tr>
<td><strong>U.S. - California - Proposition 65 - Reproductive Toxicity - Female</strong></td>
</tr>
<tr>
<td><strong>U.S. - California - Proposition 65 - Reproductive Toxicity - Male</strong></td>
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<td><strong>U.S. - California - Proposition 65 - Reproductive Toxicity - Male</strong></td>
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<table>
<thead>
<tr>
<th>Carbon monoxide (630-08-0)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>U.S. - Massachusetts - Right To Know List</strong></td>
</tr>
<tr>
<td><strong>U.S. - New Jersey - Right to Know Hazardous Substance List</strong></td>
</tr>
<tr>
<td><strong>U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List</strong></td>
</tr>
<tr>
<td><strong>U.S. - Pennsylvania - RTK (Right to Know) List</strong></td>
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</tbody>
</table>

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<td><strong>U.S. - Pennsylvania - RTK (Right to Know) List</strong></td>
</tr>
</tbody>
</table>
SECTION 16: Other information

Revision date: 8/1/2016
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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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.