Section 1: Identification

Product identifier

- Pentane (0-0.75%), Carbon Monoxide (0.0005-1.0%), Oxygen (0-23.5%), Carbon Dioxide (0.0005-50%) in Nitrogen [4 Components in Nitrogen]

Document No. 50058

Relevant identified uses of the substance or mixture and uses advised against

Recommended use - Calibration Gas

Details of the supplier of the safety data sheet

Manufacturer - Air Liquide

2700 Post Oak Blvd.
Houston, TX 77056
United States
www.us.airliquide.com

Emergency telephone number

Manufacturer 800-424-9300 - CHEMTREC
Manufacturer +1 703-527-3887 - Outside United States

Section 2: Hazard Identification

United States (US)
According to OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

OSHA HCS 2012 - Compressed Gas - H280
Reproductive Toxicity 1A - H360

Label elements

OSHA HCS 2012

DANGER

Hazard statements - Contains gas under pressure; may explode if heated - H280
May damage fertility or the unborn child. - H360

Precautionary statements

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## Prevention
- Obtain special instructions before use. - P201
- Do not handle until all safety precautions have been read and understood. - P202
- Wear protective gloves/protective clothing/eye protection/face protection. - P280

## Response
- IF exposed or concerned: Get medical advice/attention. - P308+P313

## Storage/Disposal
- Store in a well-ventilated place. - P403
- Store locked up. - P405
- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. - P501

### Other hazards

**OSHA HCS 2012**

## Canada

### According to WHMIS

#### Classification of the substance or mixture

**WHMIS**
- Compressed Gas - A
- Very Toxic - D1A
- Other Toxic Effects - D2A

#### Label elements

**WHMIS**
- Compressed Gas - A
- Very Toxic - D1A
- Other Toxic Effects - D2A

#### Other hazards

**WHMIS**
- In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

## Section 3 - Composition/Information on Ingredients

### Substances
- Material does not meet the criteria of a substance.

### Mixtures

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Identifiers</th>
<th>%</th>
<th>LD50/LC50</th>
<th>Classifications According to Regulation/Directive</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oxygen</td>
<td>CAS:7782-44-7</td>
<td>0% TO 23.5%</td>
<td>NDA</td>
<td>OSHA HCS 2012: Ox. Gas 1; Press. Gas - Comp.</td>
<td>NDA</td>
</tr>
<tr>
<td>Carbon dioxide</td>
<td>CAS:124-38-9</td>
<td>0.0005% TO 50%</td>
<td>Inhalation-Rat LC50 • 470000 ppm 30 Minute(s)</td>
<td>OSHA HCS 2012: Press. Gas - Comp.; Simple Asphyxiant</td>
<td>NDA</td>
</tr>
<tr>
<td>Carbon monoxide</td>
<td>CAS:830-08-0</td>
<td>0.0005% TO 1%</td>
<td>Inhalation-Rat LC50 • 1807 ppm 4 Hour(s)</td>
<td>OSHA HCS 2012: Flam. Gas 1; Press. Gas - Comp.; Repr. 1A; Acute Tox. 3 (inh)</td>
<td>NDA</td>
</tr>
</tbody>
</table>
Section 4: First-Aid Measures

Description of first aid measures

Inhalation
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. If signs/symptoms continue, get medical attention.

Skin
- Although exposure is unlikely, in case of contact immediately flush skin with running water. If skin irritation develops get medical advice/attention.

Eye
- First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. If irritation develops and persists, get medical attention.

Ingestion
- Ingestion is not considered a potential route of exposure.

Most important symptoms and effects, both acute and delayed
- Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed

Notes to Physician
- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. A potential health hazard associated with this gas is anoxia.

Other information
- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. RESCUERS SHOULD NOT ATTEMPT TO RETRIEVE VICTIMS OF EXPOSURE TO GASES WITHOUT ADEQUATE PERSONAL PROTECTIVE EQUIPMENT. At a minimum, Self-Contained Breathing Apparatus must be worn. Victim(s) who experience any adverse effect after over-exposure to this gas mixture must be taken for medical attention. Rescuers should be taken for medical attention if necessary. Take a copy of the label and the MSDS to physician or other health professional with victim(s).

Section 5: Fire-Fighting Measures

Extinguishing media

Suitable Extinguishing Media
- Use extinguishing agent suitable for type of surrounding fire.

Unsuitable Extinguishing Media
- No data available

Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards
- Containers may explode when heated.
- Ruptured cylinders may rocket.

Hazardous Combustion Products
- No data available

Advice for firefighters
- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.
- Wear positive pressure self-contained breathing apparatus (SCBA).
- Move containers from fire area if you can do it without risk.
- FIRE: If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2
Pentane (0-0.75%), Carbon Monoxide (0.0005-1.0%), Oxygen (0-23.5%), Carbon Dioxide (0.0005-50%) in Nitrogen [4 Components in Nitrogen]

FIRE INVOLVING TANKS: Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
FIRE INVOLVING TANKS: Cool containers with flooding quantities of water until well after fire is out.
FIRE INVOLVING TANKS: Do not direct water at source of leak or safety devices; icing may occur.
FIRE INVOLVING TANKS: Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
FIRE INVOLVING TANKS: ALWAYS stay away from tanks engulfed in fire.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions
- Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material. Ventilate the area before entry.

Emergency Procedures
- Stop leak if you can do it without risk. Keep unauthorized personnel away. Keep out of low areas. Stay upwind. Do not direct water at spill or source of leak. LARGE SPILL: Consider initial downwind evacuation for at least 500 meters (1/3 mile)

Environmental precautions
- No special environmental precautions necessary.

Methods and material for containment and cleaning up

Containment/Clean-up Measures
- Stop leak if you can do it without risk. Do not direct water at spill or source of leak. Use water spray to reduce vapors; do not put water directly on leak, spill area or inside container. Isolate area until gas has dispersed. Ventilate the area.

Section 7 - Handling and Storage

Precautions for safe handling

Handling
- Use only with adequate ventilation. Ventilate closed spaces before entering. Be aware of any signs of dizziness or fatigue, especially if work is done in a poorly ventilated area; exposures to fatal concentrations of this gas mixture could occur without any significant warning symptoms, due to olfactory fatigue or oxygen deficiency. Cylinders should be firmly secured to prevent falling or being knocked-over. Do not attempt to repair, adjust, or in any other way modify cylinders. If there is a malfunction or another type of operational problem, contact nearest distributor immediately. Empty containers retain product residue and can be hazardous. Do not cut, weld, puncture or incinerate container.

Conditions for safe storage, including any incompatibilities

Storage
- Store in a cool, dry, well-ventilated place. Protect cylinders against physical damage. Cylinders should be firmly secured to prevent falling or being knocked-over.

Section 8 - Exposure Controls/Personal Protection

Control parameters

<table>
<thead>
<tr>
<th>Result</th>
<th>ACGIH</th>
<th>Canada Ontario</th>
<th>Canada Quebec</th>
<th>China</th>
</tr>
</thead>
<tbody>
<tr>
<td>STELs</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>1000 mg/m3 STEL (listed under Pentane)</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th><strong>Pentane (109-66-0)</strong></th>
<th>TWAs</th>
<th>600 ppm TWA (listed under Pentane, all isomers)</th>
<th>600 ppm TWA</th>
<th>120 ppm TWAEV; 350 mg/m³ TWA EV</th>
<th>(all isomers)</th>
<th>Not established</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon dioxide (124-38-9)</td>
<td>STELs</td>
<td>30000 ppm STEL</td>
<td>30000 ppm STEL</td>
<td>30000 ppm STEV; 54000 mg/m³ STEV</td>
<td>18000 mg/m³ STEL</td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td>TWAs</td>
<td>5000 ppm TWA</td>
<td>5000 ppm TWA</td>
<td>5000 ppm TWAEV; 9000 mg/m³ TWA EV</td>
<td>9000 mg/m³ TWA</td>
<td>Not established</td>
</tr>
<tr>
<td>Carbon monoxide (630-08-0)</td>
<td>Ceilings</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td>STELs</td>
<td>Not established</td>
<td>Not established</td>
<td>200 ppm STEV; 230 mg/m³ STEV</td>
<td>30 mg/m³ STEL (not in high altitude area)</td>
<td>30 mg/m³ STEL (not in high altitude area)</td>
</tr>
<tr>
<td></td>
<td>TWAs</td>
<td>25 ppm TWA</td>
<td>25 ppm TWA</td>
<td>35 ppm TWAEV; 40 mg/m³ TWA EV</td>
<td>20 mg/m³ TWA (not in high altitude area)</td>
<td>20 mg/m³ TWA (not in high altitude area)</td>
</tr>
</tbody>
</table>

### Exposure Limits/Guidelines (Cont.)

<table>
<thead>
<tr>
<th>Result</th>
<th>Europe</th>
<th>France</th>
<th>Germany DFG</th>
<th>Germany TRGS</th>
<th>Ireland</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Pentane (109-66-0)</strong></td>
<td>TWAs</td>
<td>1000 ppm TWA; 3000 mg/m³ TWA</td>
<td>1000 ppm TWA [VME] (restrictive limit); 3000 mg/m³ TWA [VME] (restrictive limit)</td>
<td>Not established</td>
<td>1000 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2); 3000 mg/m³ TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2)</td>
</tr>
<tr>
<td></td>
<td>STELs</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td>Ceilings</td>
<td>Not established</td>
<td>Not established</td>
<td>2000 ppm Peak (listed under Pentane); 6000 mg/m³ Peak (listed under Pentane)</td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td>MAKs</td>
<td>Not established</td>
<td>Not established</td>
<td>1000 ppm TWA MAK; 3000 mg/m³ TWA MAK</td>
<td>Not established</td>
</tr>
<tr>
<td><strong>Carbon dioxide (124-38-9)</strong></td>
<td>TWAs</td>
<td>5000 ppm TWA; 9000 mg/m³ TWA</td>
<td>5000 ppm TWA [VME] (indicative limit); 9000 mg/m³ TWA [VME] (indicative limit)</td>
<td>Not established</td>
<td>5000 ppm TWA AGW (exposure factor 2); 9100 mg/m³ TWA AGW (exposure factor 2)</td>
</tr>
<tr>
<td></td>
<td>Ceilings</td>
<td>Not established</td>
<td>Not established</td>
<td>10000 ppm Peak; 18200 mg/m³ Peak</td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td>MAKs</td>
<td>Not established</td>
<td>Not established</td>
<td>5000 ppm TWA MAK; 9100 mg/m³ TWA MAK</td>
<td>Not established</td>
</tr>
</tbody>
</table>
Pentane (0-0.75%), Carbon Monoxide (0.0005-1.0%), Oxygen (0-23.5%), Carbon Dioxide (0.0005-50%) in Nitrogen [4 Components in Nitrogen]

<table>
<thead>
<tr>
<th>Component</th>
<th>TWAs</th>
<th>STELs</th>
<th>Ceilings</th>
<th>MAKs</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon monoxide (630-08-0)</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>30 ppm TWA AGW (The risk of damage to the embryo or fetus cannot be excluded even when AGW and BGW values are observed, exposure factor 2); 35 mg/m3 TWA AGW (The risk of damage to the embryo or fetus cannot be excluded even when AGW and BGW values are observed, exposure factor 2)</td>
</tr>
<tr>
<td>Carbon dioxide (124-38-9)</td>
<td>5000 ppm TWA</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>600 ppm TWA; 2000 mg/m3 TWA; 5000 ppm TWA; 9000 mg/m3 TWA</td>
</tr>
<tr>
<td>Carbon monoxide (630-08-0)</td>
<td>25 ppm TWA</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>25 ppm TWA; 40 mg/m3 TWA; 50 ppm TWA; 55 mg/m3 TWA</td>
</tr>
</tbody>
</table>

### Exposure Limits/Guidelines (Con’t.)

<table>
<thead>
<tr>
<th>Result</th>
<th>Israel</th>
<th>Italy</th>
<th>NIOSH</th>
<th>OSHA</th>
<th>OSHA Vacated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pentane (109-66-0)</td>
<td>600 ppm TWA (listed under Pentane, all isomers)</td>
<td>667 ppm TWA; 2000 mg/m3 TWA</td>
<td>120 ppm TWA; 350 mg/m3 TWA</td>
<td>1000 ppm TWA; 2950 mg/m3 TWA</td>
<td>600 ppm TWA; 1800 mg/m3 TWA</td>
</tr>
<tr>
<td>Carbon dioxide (124-38-9)</td>
<td>5000 ppm TWA</td>
<td>Not established</td>
<td>5000 ppm TWA; 9000 mg/m3 TWA</td>
<td>5000 ppm TWA; 9000 mg/m3 TWA</td>
<td>10000 ppm TWA; 18000 mg/m3 TWA</td>
</tr>
<tr>
<td>Carbon monoxide (630-08-0)</td>
<td>25 ppm TWA</td>
<td>Not established</td>
<td>35 ppm TWA; 40 mg/m3 TWA</td>
<td>50 ppm TWA; 55 mg/m3 TWA</td>
<td>35 ppm TWA; 40 mg/m3 TWA</td>
</tr>
</tbody>
</table>

### Exposure Limits/Guidelines (Con’t.)

<table>
<thead>
<tr>
<th>Result</th>
<th>Portugal</th>
<th>Spain</th>
<th>Sweden</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pentane (109-66-0)</td>
<td>600 ppm TWA [VLE-MP]</td>
<td>1000 ppm TWA [VLA-ED] (indicative limit value); 3000 mg/m3 TWA [VLA-ED] (indicative limit value)</td>
<td>600 ppm LLV; 1800 mg/m3 LLV</td>
</tr>
<tr>
<td>Carbon dioxide</td>
<td>30000 ppm STEL [VLE-CD]</td>
<td>Not established</td>
<td>10000 ppm STV; 18000 mg/m3 STV</td>
</tr>
</tbody>
</table>

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### Exposure Control Notations

**Portugal**
- Nitrogen (7727-37-9): Simple Asphyxiants: (Simple Asphyxiant)

**France**
- Carbon monoxide (630-08-0): Reproductive Toxins: (Reproductive Toxin category 1)

**Ireland**
- Nitrogen (7727-37-9): Simple Asphyxiants: (Asphyxiant)

**Spain**
- Carbon monoxide (630-08-0): Substances with Potential Chronic Health Effects: (Repr1A)

**Sweden**
- Carbon monoxide (630-08-0): Reproductive Toxins: (Causes reproductive disturbances)

**Germany DFG**
- Carbon monoxide (630-08-0): Pregnancy: (risk to embryo/fetus probable)
- Pentane (109-66-0): Pregnancy: (no risk to embryo/fetus if exposure limits adhered to)

### Exposure Limits Supplemental

**Israel**
- Carbon monoxide (630-08-0): Biological Markers of Occupational Exposure: (3.5 % of hemoglobin Medium: blood Time: end of shift Parameter: Carboxyhemoglobin (background, nonspecific); 20 ppm Medium: end-exhaled air Time: end of shift Parameter: Carbon monoxide (background, nonspecific))

### Exposure controls

#### Engineering Measures/Controls
- Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

#### Personal Protective Equipment

##### Respiratory
- Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved
respirator if exposure limits are exceeded or symptoms are experienced.

Eye/Face
● Wear safety glasses.

Skin/Body
● Wear leather gloves when handling cylinders.

Environmental Exposure
● Follow best practice for site management and disposal of waste. Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways.

Key to abbreviations
ACGIH = American Conference of Governmental Industrial Hygiene
OSHA = Occupational Safety and Health Administration
LLV = Limit Level Value is the exposure limit for 8-hour work day
STEL = Short Term Exposure Limits are based on 15-minute exposures
Mak = Maximale Arbeitsplatz Konzentration is the maximum permissible concentration
NIOSH = National Institute of Occupational Safety and Health
TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Material Description</th>
<th>Gas</th>
<th>Appearance/Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colorless gas mixture which is odorless or has a sharp odor, depending on the amount of Carbon Dioxide in this mixture.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>Colorless</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Odor</td>
<td></td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not relevant</td>
<td></td>
</tr>
</tbody>
</table>

General Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point</td>
<td>-195.8 C(-320.44 F) Nitrogen</td>
</tr>
<tr>
<td>Melting Point</td>
<td>210 C(410 F) Nitrogen</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Data lacking</td>
</tr>
<tr>
<td>pH</td>
<td>Not relevant</td>
</tr>
<tr>
<td>Specific Gravity/Relative Density</td>
<td>0.906 Water=1 @ 21.1 C(69.98 F) Nitrogen</td>
</tr>
<tr>
<td>Density</td>
<td>0.072 lb(s)/ft³ @ 0 C(32 F) Nitrogen</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>0.023 @ 0 C(32 F) (vol/vol) Nitrogen</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not relevant</td>
</tr>
</tbody>
</table>

Vocatility

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vapor Pressure</td>
<td>Data lacking</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Data lacking</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Data lacking</td>
</tr>
</tbody>
</table>

Flammability

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Point</td>
<td>Not relevant</td>
</tr>
<tr>
<td>UEL</td>
<td>Not relevant</td>
</tr>
<tr>
<td>LEL</td>
<td>Not relevant</td>
</tr>
<tr>
<td>Autoignition</td>
<td>Not relevant</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not flammable.</td>
</tr>
</tbody>
</table>

Environmental

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Octanol/Water Partition coefficient</td>
<td>Data lacking</td>
</tr>
</tbody>
</table>

Section 10: Stability and Reactivity

Reactivity

● No dangerous reaction known under conditions of normal use.

Chemical stability
Stable under normal temperatures and pressures.

**Possibility of hazardous reactions**
- Hazardous polymerization will not occur.

**Conditions to avoid**
- Excess heat.

**Incompatible materials**
- No data available

**Hazardous decomposition products**
- Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### Section 11 - Toxicological Information

#### Information on toxicological effects

<table>
<thead>
<tr>
<th>Components</th>
<th>Acute Toxicity: Ingestion/Oral-Rat LD50 • &gt;2000 mg/kg; Inhalation-Rat LC50 • 364 g/m³ 4 Hour(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oxygen (0% TO 23.5%)</td>
<td>Reproductive: Inhalation-Rat TCLo • 10 pph 9 Hour(s)(22D preg); Reproductive Effects:Specific Developmental Abnormalities:Respiratory system; Reproductive Effects:Effects on Newborn:Physical</td>
</tr>
<tr>
<td>Carbon dioxide (0.0005% TO 50%)</td>
<td>Reproductive: Inhalation-Rat TCLo • 6 pph 24 Hour(s)(10D preg); Reproductive Effects:Specific Developmental Abnormalities:Musculoskeletal system; Reproductive Effects:Specific Developmental Abnormalities:Cardiovascular (circulatory) system; Reproductive Effects:Specific Developmental Abnormalities:Respiratory system</td>
</tr>
<tr>
<td>Carbon monoxide (0.0005% TO 1%)</td>
<td>Reproductive: Inhalation-Rat TCLo • 150 ppm (0-20D preg); Reproductive Effects:Maternal Effects:Other effects; Reproductive Effects:Effects on Newborn:Biochemical and metabolic; Reproductive Effects:Effects on Newborn:Physical</td>
</tr>
<tr>
<td>Pentane (0% TO 0.75%)</td>
<td>Reproductive: Inhalation-Rat TCLo • 10 pph 9 Hour(s)(22D preg); Reproductive Effects:Specific Developmental Abnormalities:Respiratory system; Reproductive Effects:Effects on Newborn:Physical</td>
</tr>
</tbody>
</table>

#### GHS Properties

<table>
<thead>
<tr>
<th>GHS Properties</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Aspiration Hazard</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Germ Cell Mutagenicity</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Skin corrosion/Irritation</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>STOT-RE</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>STOT-SE</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Toxicity for Reproduction</td>
<td>OSHA HCS 2012 • Toxic to Reproduction 1A</td>
</tr>
<tr>
<td>Respiratory sensitization</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Serious eye damage/Irritation</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
</tbody>
</table>

### Potential Health Effects

#### Inhalation
Acute (Immediate)  Inhalation of carbon dioxide can increase respiration and heart rate.
Chronic (Delayed)  No data available

Skin
Acute (Immediate)  Under normal conditions of use, no health effects are expected.
Chronic (Delayed)  Under normal conditions of use, no health effects are expected.

Eye
Acute (Immediate)  Under normal conditions of use, no health effects are expected.
Chronic (Delayed)  Under normal conditions of use, no health effects are expected.

Ingestion
Acute (Immediate)  Ingestion is not anticipated to be a likely route of exposure to this product.
Chronic (Delayed)  Ingestion is not anticipated to be a likely route of exposure to this product.

Carcinogenic Effects
The components of this material are not found on the following lists: FEDERAL OSHA Z LIST, NTP and IARC; therefore, they are not considered to be, nor suspected to be, cancer-causing agents by these agencies.

Reproductive Effects
The Carbon Monoxide component of this gas mixture can cause teratogenic effects in humans. Severe exposure to Carbon Monoxide during pregnancy has caused adverse effects and the death of the fetus. In general, maternal symptoms are an indicator of the potential risk to the fetus since Carbon Monoxide is toxic to the mother before it is toxic to the fetus.

Key to abbreviations
LC = Lethal Concentration
TC = Toxic Concentration
TD = Toxic Dose

Section 12 - Ecological Information

Toxicity
Material data lacking.

Persistence and degradability
Material data lacking.

Bioaccumulative potential
Material data lacking.

Mobility in Soil
Material data lacking.

Results of PBT and vPvB assessment
PBT and vPvB assessment has not been conducted for this material.

Other adverse effects
No studies have been found.

Section 13 - Disposal Considerations

Waste treatment methods
Product waste  Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
Packaging waste  Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
Section 14 - Transport Information

<table>
<thead>
<tr>
<th>UN number</th>
<th>UN proper shipping name</th>
<th>Transport hazard class(es)</th>
<th>Packing group</th>
<th>Environmental hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
<td>Compressed gas, n.o.s. (Nitrogen, Carbon Dioxide)</td>
<td>2.2</td>
<td>NDA</td>
<td>NDA</td>
</tr>
<tr>
<td>TDG</td>
<td>COMPRESSED GAS, N.O.S. (Nitrogen, Carbon Dioxide)</td>
<td>2.2</td>
<td>NDA</td>
<td>NDA</td>
</tr>
<tr>
<td>IMO/IMDG</td>
<td>COMPRESSED GAS, N.O.S. (Nitrogen, Carbon Dioxide)</td>
<td>2.2</td>
<td>NDA</td>
<td>NDA</td>
</tr>
<tr>
<td>IATA/ICAO</td>
<td>Compressed gas, n.o.s. (Nitrogen, Carbon Dioxide)</td>
<td>2.2</td>
<td>NDA</td>
<td>NDA</td>
</tr>
</tbody>
</table>

Special precautions for user

- Cylinders should be transported in a secure position, in a well-ventilated vehicle. The transportation of compressed gas cylinders in automobiles or in closed-body vehicles can present serious safety hazards. If transporting these cylinders in vehicles, ensure these cylinders are not exposed to extremely high temperatures (as may occur in an enclosed vehicle on a hot day). Additionally, the vehicle should be well-ventilated during transportation.

- Not relevant.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications

- Pressure(Sudden Release of), Acute

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>MA</th>
<th>NJ</th>
<th>PA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon dioxide</td>
<td>124-38-9</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Carbon monoxide</td>
<td>630-08-0</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>7727-37-9</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Oxygen</td>
<td>7782-44-7</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Pentane</td>
<td>109-66-0</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Inventory

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>Canada DSL</th>
<th>Canada NDSL</th>
<th>China</th>
<th>EU EINECS</th>
<th>EU ELNICS</th>
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</thead>
<tbody>
<tr>
<td>Carbon dioxide</td>
<td>124-38-9</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Carbon monoxide</td>
<td>630-08-0</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>7727-37-9</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Oxygen</td>
<td>7782-44-7</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Pentane</td>
<td>109-66-0</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
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</table>

Inventory (Con’t.)

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
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</thead>
<tbody>
<tr>
<td>Carbon dioxide</td>
<td>124-38-9</td>
<td>Yes</td>
</tr>
<tr>
<td>Carbon monoxide</td>
<td>630-08-0</td>
<td>Yes</td>
</tr>
</tbody>
</table>
Pentane (0-0.75%), Carbon Monoxide (0.0005-1.0%), Oxygen (0-23.5%), Carbon Dioxide (0.0005-50%) in Nitrogen [4 Components in Nitrogen]

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
<th>WHMIS Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitrogen</td>
<td>7727-37-9</td>
<td>Yes</td>
</tr>
<tr>
<td>Oxygen</td>
<td>7782-44-7</td>
<td>Yes</td>
</tr>
<tr>
<td>Pentane</td>
<td>109-66-0</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Canada

Labor

Canada - WHMIS - Classifications of Substances
- Carbon monoxide: 630-08-0, A, B1, D1A, D2A
- Pentane: 109-66-0, B2
- Oxygen: 7782-44-7, A, C
- Carbon dioxide: 124-38-9, A; Uncontrolled product according to WHMIS classification criteria (solid)
- Nitrogen: 7727-37-9, A

Canada - WHMIS - Ingredient Disclosure List
- Carbon monoxide: 630-08-0, 0.1%
- Pentane: 109-66-0, 1%
- Oxygen: 7782-44-7, Not Listed
- Carbon dioxide: 124-38-9, 1%
- Nitrogen: 7727-37-9, Not Listed

Environment

Canada - CEPA - Priority Substances List
- Carbon monoxide: 630-08-0, Not Listed
- Pentane: 109-66-0, Not Listed
- Oxygen: 7782-44-7, Not Listed
- Carbon dioxide: 124-38-9, Not Listed
- Nitrogen: 7727-37-9, Not Listed

China

Environment

China - Ozone Depleting Substances - First Schedule
- Carbon monoxide: 630-08-0, Not Listed
- Pentane: 109-66-0, Not Listed
- Oxygen: 7782-44-7, Not Listed
- Carbon dioxide: 124-38-9, Not Listed
- Nitrogen: 7727-37-9, Not Listed

China - Ozone Depleting Substances - Second Schedule
- Carbon monoxide: 630-08-0, Not Listed
- Pentane: 109-66-0, Not Listed
- Oxygen: 7782-44-7, Not Listed
- Carbon dioxide: 124-38-9, Not Listed
- Nitrogen: 7727-37-9, Not Listed

China - Ozone Depleting Substances - Third Schedule
- Carbon monoxide: 630-08-0, Not Listed
- Pentane: 109-66-0, Not Listed
- Oxygen: 7782-44-7, Not Listed
- Carbon dioxide: 124-38-9, Not Listed
- Nitrogen: 7727-37-9, Not Listed
### Other

#### China - Annex I & II - Controlled Chemicals Lists
- Carbon monoxide
- Pentane
- Oxygen
- Carbon dioxide
- Nitrogen

#### China - Dangerous Goods List
- Carbon monoxide
- Pentane
- Oxygen
- Carbon dioxide
- Nitrogen

#### China - Export Control List - Part I Chemicals
- Carbon monoxide
- Pentane
- Oxygen
- Carbon dioxide
- Nitrogen

### Europe

#### Other

#### EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification
- Carbon monoxide
- Pentane
- Oxygen
- Carbon dioxide
- Nitrogen

#### EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits
- Carbon monoxide
- Pentane
- Oxygen
- Carbon dioxide
- Nitrogen

#### EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling
- Carbon monoxide
- Pentane
- Oxygen
- Carbon dioxide
- Nitrogen

#### EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations
- Carbon monoxide

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Preparation Date: 16/October/2014
Revision Date: 16/October/2014

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Format: GHS Language: English (US)

WHMIS, OSHA HCS 2012
### Pentane (0-0.75%), Carbon Monoxide (0.0005-1.0%), Oxygen (0-23.5%), Carbon Dioxide (0.0005-50%) in Nitrogen [4 Components in Nitrogen]

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<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>Pentane</td>
<td>109-66-0</td>
<td>C</td>
</tr>
<tr>
<td>Oxygen</td>
<td>7782-44-7</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Carbon dioxide</td>
<td>124-38-9</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>7727-37-9</td>
<td>Not Listed</td>
</tr>
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### EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
<th>Safety Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon monoxide</td>
<td>630-08-0</td>
<td>S:53-45</td>
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<tr>
<td>Pentane</td>
<td>109-66-0</td>
<td>S:(2)-9-16-29-33-61-62</td>
</tr>
<tr>
<td>Oxygen</td>
<td>7782-44-7</td>
<td>S:(2)-17</td>
</tr>
<tr>
<td>Carbon dioxide</td>
<td>124-38-9</td>
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</tr>
<tr>
<td>Nitrogen</td>
<td>7727-37-9</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

### Germany - Environment

**Germany - TA Luft - Types and Classes**

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon monoxide</td>
<td>630-08-0</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Pentane</td>
<td>109-66-0</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Oxygen</td>
<td>7782-44-7</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Carbon dioxide</td>
<td>124-38-9</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>7727-37-9</td>
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</table>

**Germany - Water Classification (VwVwS) - Annex 1**

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon monoxide</td>
<td>630-08-0</td>
<td>ID Number 743, not considered hazardous to water</td>
</tr>
<tr>
<td>Pentane</td>
<td>109-66-0</td>
<td>ID Number 256, not considered hazardous to water</td>
</tr>
<tr>
<td>Oxygen</td>
<td>7782-44-7</td>
<td>ID Number 1351, not considered hazardous to water</td>
</tr>
<tr>
<td>Carbon dioxide</td>
<td>124-38-9</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Nitrogen</td>
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</table>

**Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes**

<table>
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<tr>
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<th>CAS Number</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon monoxide</td>
<td>630-08-0</td>
<td>ID Number 257, hazard class 1 - low hazard to waters</td>
</tr>
<tr>
<td>Pentane</td>
<td>109-66-0</td>
<td>ID Number 452, hazard class 2 - hazard to waters</td>
</tr>
<tr>
<td>Oxygen</td>
<td>7782-44-7</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Carbon dioxide</td>
<td>124-38-9</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>7727-37-9</td>
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</tbody>
</table>

**Germany - Water Classification (VwVwS) - Annex 3**

<table>
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<th>Notes</th>
</tr>
</thead>
<tbody>
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<td>Carbon monoxide</td>
<td>630-08-0</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Pentane</td>
<td>109-66-0</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Oxygen</td>
<td>7782-44-7</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Carbon dioxide</td>
<td>124-38-9</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>7727-37-9</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

### Other

**Germany - Specifically Regulated Chemicals in TRGS**

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon monoxide</td>
<td>630-08-0</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Pentane</td>
<td>109-66-0</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Oxygen</td>
<td>7782-44-7</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Carbon dioxide</td>
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<td>Not Listed</td>
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<td>Substance</td>
<td>Code</td>
<td>Status</td>
</tr>
<tr>
<td>---------------------------------</td>
<td>----------</td>
<td>--------------</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>7727-37-9</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

### Portugal

#### Other

**Portugal - Prohibited Substances**
- Carbon monoxide: 630-08-0 (Not Listed)
- Pentane: 109-66-0 (Not Listed)
- Oxygen: 7782-44-7 (Not Listed)
- Carbon dioxide: 124-38-9 (Not Listed)
- Nitrogen: 7727-37-9 (Not Listed)

### United Kingdom

#### Environment

**United Kingdom - Pollution Inventory - Schedule 1 - Thresholds for Releases to Air**
- Carbon monoxide: 630-08-0 (100000 kg)
- Pentane: 109-66-0 (Not Listed)
- Oxygen: 7782-44-7 (1000000 kg (qualifying renewable fuel sources are reportable when the total amount of CO2 released is above 10 million kg); 10000000 kg)
- Carbon dioxide: 124-38-9 (Not Listed)
- Nitrogen: 7727-37-9 (Not Listed)

#### Other

**United Kingdom - Workplace Exposure Limits (WELs) - Substances in Review**
- Carbon monoxide: 630-08-0 (Not Listed)
- Pentane: 109-66-0 (Not Listed)
- Oxygen: 7782-44-7 (Not Listed)
- Carbon dioxide: 124-38-9 (Not Listed)
- Nitrogen: 7727-37-9 (Not Listed)

**United Kingdom - List of Dangerous Substances in Water**
- Carbon monoxide: 630-08-0 (Not Listed)
- Pentane: 109-66-0 (Not Listed)
- Oxygen: 7782-44-7 (Not Listed)
- Carbon dioxide: 124-38-9 (Not Listed)
- Nitrogen: 7727-37-9 (Not Listed)

### United States

#### Labor

**U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals**
- Carbon monoxide: 630-08-0 (Not Listed)
- Pentane: 109-66-0 (Not Listed)
- Oxygen: 7782-44-7 (Not Listed)
- Carbon dioxide: 124-38-9 (Not Listed)
- Nitrogen: 7727-37-9 (Not Listed)

**U.S. - OSHA - Specifically Regulated Chemicals**
- Carbon monoxide: 630-08-0 (Not Listed)
- Pentane: 109-66-0 (Not Listed)
- Oxygen: 7782-44-7 (Not Listed)
<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
<th>WHMIS</th>
<th>OSHA HCS 2012</th>
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</thead>
<tbody>
<tr>
<td>Carbon dioxide</td>
<td>124-38-9</td>
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</tr>
<tr>
<td>Nitrogen</td>
<td>7727-37-9</td>
<td>Not Listed</td>
<td></td>
</tr>
</tbody>
</table>

### Environment

#### U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants
- Carbon monoxide: 630-08-0, Not Listed
- Pentane: 109-66-0, Not Listed
- Oxygen: 7782-44-7, Not Listed
- Carbon dioxide: 124-38-9, Not Listed
- Nitrogen: 7727-37-9, Not Listed

#### U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities
- Carbon monoxide: 630-08-0, Not Listed
- Pentane: 109-66-0, Not Listed
- Oxygen: 7782-44-7, Not Listed
- Carbon dioxide: 124-38-9, Not Listed
- Nitrogen: 7727-37-9, Not Listed

#### U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities
- Carbon monoxide: 630-08-0, Not Listed
- Pentane: 109-66-0, Not Listed
- Oxygen: 7782-44-7, Not Listed
- Carbon dioxide: 124-38-9, Not Listed
- Nitrogen: 7727-37-9, Not Listed

#### U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs
- Carbon monoxide: 630-08-0, Not Listed
- Pentane: 109-66-0, Not Listed
- Oxygen: 7782-44-7, Not Listed
- Carbon dioxide: 124-38-9, Not Listed
- Nitrogen: 7727-37-9, Not Listed

#### U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs
- Carbon monoxide: 630-08-0, Not Listed
- Pentane: 109-66-0, Not Listed
- Oxygen: 7782-44-7, Not Listed
- Carbon dioxide: 124-38-9, Not Listed
- Nitrogen: 7727-37-9, Not Listed

#### U.S. - CERCLA/SARA - Section 313 - Emission Reporting
- Carbon monoxide: 630-08-0, Not Listed
- Pentane: 109-66-0, Not Listed
- Oxygen: 7782-44-7, Not Listed
- Carbon dioxide: 124-38-9, Not Listed
- Nitrogen: 7727-37-9, Not Listed

#### U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing
- Carbon monoxide: 630-08-0, Not Listed
- Pentane: 109-66-0, Not Listed
- Oxygen: 7782-44-7, Not Listed
- Carbon dioxide: 124-38-9, Not Listed
- Nitrogen: 7727-37-9, Not Listed
### United States - California

#### Environment

**U.S. - California - Proposition 65 - Carcinogens List**
- Carbon monoxide 630-08-0, Not Listed
- Pentane 109-66-0, Not Listed
- Oxygen 7782-44-7, Not Listed
- Carbon dioxide 124-38-9, Not Listed
- Nitrogen 7727-37-9, Not Listed

**U.S. - California - Proposition 65 - Developmental Toxicity**
- Carbon monoxide 630-08-0, developmental toxicity, initial date 7/1/89
- Pentane 109-66-0, Not Listed
- Oxygen 7782-44-7, Not Listed
- Carbon dioxide 124-38-9, Not Listed
- Nitrogen 7727-37-9, Not Listed

**U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)**
- Carbon monoxide 630-08-0, Not Listed
- Pentane 109-66-0, Not Listed
- Oxygen 7782-44-7, Not Listed
- Carbon dioxide 124-38-9, Not Listed
- Nitrogen 7727-37-9, Not Listed

**U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)**
- Carbon monoxide 630-08-0, Not Listed
- Pentane 109-66-0, Not Listed
- Oxygen 7782-44-7, Not Listed
- Carbon dioxide 124-38-9, Not Listed
- Nitrogen 7727-37-9, Not Listed

**U.S. - California - Proposition 65 - Reproductive Toxicity - Female**
- Carbon monoxide 630-08-0, Not Listed
- Pentane 109-66-0, Not Listed
- Oxygen 7782-44-7, Not Listed
- Carbon dioxide 124-38-9, Not Listed
- Nitrogen 7727-37-9, Not Listed

**U.S. - California - Proposition 65 - Reproductive Toxicity - Male**
- Carbon monoxide 630-08-0, Not Listed
- Pentane 109-66-0, Not Listed
- Oxygen 7782-44-7, Not Listed
- Carbon dioxide 124-38-9, Not Listed
- Nitrogen 7727-37-9, Not Listed

### United States - Pennsylvania

#### Labor

**U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List**
- Carbon monoxide 630-08-0, Not Listed
- Pentane 109-66-0, Not Listed
- Oxygen 7782-44-7, Not Listed
- Carbon dioxide 124-38-9, Not Listed
- Nitrogen 7727-37-9, Not Listed
Section 16 - Other Information

Last Revision Date: 16/October/2014
Preparation Date: 16/October/2014
Disclaimer/Statement of Liability:
- To the best of Air Liquide's knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either express or implied, are provided. The information contained herein relates only to this specific product. If this gas mixture is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.

Key to abbreviations
NDA = No Data Available