

## Safety Data Sheet



## Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

### 1.1 Product identifier

|                     |                               |
|---------------------|-------------------------------|
| <b>Product Name</b> | • <b>Carbon Dioxide (gas)</b> |
| <b>CAS Number</b>   | • 124-38-9                    |
| <b>Product Code</b> | • MSDS No. 10040              |
| <b>EC Number</b>    | • 204-696-9                   |

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

|                                   |   |
|-----------------------------------|---|
| <b>Relevant identified use(s)</b> | • Medical and general analytical or synthetic chemical uses |
|-----------------------------------|---|

### 1.3 Details of the supplier of the safety data sheet

|                              |   |
|------------------------------|---|
| <b>Manufacturer</b>          | • Air Liquide<br>2700 Post Oak Blvd.<br>Houston, TX 77056<br>United States<br>www.us.airliquide.com |
| <b>Telephone (Technical)</b> | • 713-896-2896  |
| <b>Telephone (Technical)</b> | • 800-819-1704  |

### 1.4 Emergency telephone number

|                     |   |
|---------------------|---|
| <b>Manufacturer</b> | • 800-424-9300 - CHEMTREC                 |
| <b>Manufacturer</b> | • +1 703-527-3887 - Outside United States |

## Section 2: Hazards Identification

### EU/EEC

According to EU Directive 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]  
According to EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

### 2.1 Classification of the substance or mixture

|                |   |
|----------------|---|
| <b>CLP</b>     | • Compressed Gas - H280   |
| <b>DSD/DPD</b> | • Classification criteria not met and currently not classified under Annex I of the Directive |

### 2.2 Label Elements

CLP

#### WARNING



**Hazard statements** • H280 - Contains gas under pressure; may explode if heated

**Precautionary statements**

- Storage/Disposal**
- P403 - Store in a well-ventilated place.
  - Mixtures containing carbon dioxide can increase respiration and heart rate.

DSD/DPD

**2.3 Other Hazards**

- CLP**
- This material is a simple asphyxiant. May displace or reduce oxygen available for breathing especially in confined spaces. According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.
- DSD/DPD**
- This material is a simple asphyxiant. May displace or reduce oxygen available for breathing especially in confined spaces. This product is not considered dangerous under the European Directive 67/548/EEC

**United States (US)**

According to OSHA 29 CFR 1910.1200 HCS

**2.1 Classification of the substance or mixture**

- OSHA HCS 2012**
- Compressed Gas - H280  
Simple Asphyxiant

**2.2 Label elements**

OSHA HCS 2012

**WARNING**

- Hazard statements**
- H280 - Contains gas under pressure; may explode if heated  
May displace oxygen and cause rapid suffocation.

**Precautionary statements**

- Storage/Disposal**
- P403 - Store in a well-ventilated place.
- HCS 2012 Other Information**
- Mixtures containing carbon dioxide can increase respiration and heart rate.

**2.3 Other hazards**

- OSHA HCS 2012**
- Contact with gas or liquefied gas will cause burns, severe injury and/or frostbite. Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

**Canada**

According to WHMIS

**2.1 Classification of the substance or mixture**

- WHMIS**
- Compressed Gas - A

**2.2 Label elements**

WHMIS



- Compressed Gas - A

**2.3 Other hazards**

**WHMIS**

- This material is a simple asphyxiant. May displace or reduce oxygen available for breathing especially in confined spaces. Contact with gas or liquefied gas will cause burns, severe injury and/or frostbite. In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

## Section 3 - Composition/Information on Ingredients

### 3.1 Substances

| Hazardous Components |                                     |           |   |  |          |
|----------------------|-------------------------------------|-----------|---|--|----------|
| Chemical Name        | Identifiers                         | %(weight) | LD50/LC50                                     | Classifications According to Regulation/Directive                          | Comments |
| Carbon dioxide       | CAS:124-38-9<br>EC Number:204-696-9 | > 99%     | Inhalation-Rat LC50 • 470000 ppm 30 Minute(s) | EU DSD/DPD: R20<br>EU CLP: Compressed Gas<br>OSHA HCS 2012: Compressed Gas | NDA      |

### 3.2 Mixtures

- Material does not meet the criteria of a mixture.

See Section 11 for Toxicological Information.

## Section 4 - First Aid Measures

### 4.1 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

- If frostbite has occurred, seek medical attention immediately; do NOT rub the affected area(s) or flush them with water. In order to prevent further tissue damage, do NOT attempt to remove frozen clothing from frostbitten areas. If frostbite has not occurred, immediately and thoroughly wash contaminated skin with soap and water.

#### Eye

- If eye tissue is frozen, seek medical attention immediately; if tissue is not frozen, immediately and thoroughly flush the eyes with large amounts of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation, pain, swelling, lacrimation or photophobia persist, get medical attention as soon as possible.

#### Ingestion

- If frostbite has occurred, seek medical attention immediately; do NOT rub the affected area(s) or flush them with water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting.

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

- Refer to Section 11 - Toxicological Information.

### 4.3 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.

### 4.4 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 - Firefighting Measures

### 5.1 Extinguishing media

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

**Unsuitable Extinguishing Media** ● No data available

### 5.2 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

### 5.3 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. Always wear thermal protective clothing when handling refrigerated/cryogenic liquids. 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 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions. 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

### 6.1 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)

### 6.2 Environmental precautions

- No special environmental precautions necessary.

### 6.3 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.  
If possible, turn leaking containers so that gas escapes rather than liquid.  
Isolate area until gas has dispersed.  
Ventilate the area.

## 6.4 Reference to other sections

- No data available

## Section 7 - Handling and Storage

### 7.1 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.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage

- Store in a cool, dry, well-ventilated place. Do not allow area where cylinders are stored to exceed 52C (125F). Protect cylinders against physical damage. Cylinders should be firmly secured to prevent falling or being knocked-over.

### 7.3 Specific end use(s)

- No data available

## Section 8 - Exposure Controls/Personal Protection

### 8.1 Control parameters

| Exposure Limits/Guidelines   |        |                |                |                                     |                                     |                                 |
|------------------------------|--------|----------------|----------------|-------------------------------------|-------------------------------------|---------------------------------|
|                              | Result | ACGIH          | Canada Ontario | Canada Quebec                       | NIOSH                               | OSHA                            |
| Carbon dioxide<br>(124-38-9) | STELs  | 30000 ppm STEL | 30000 ppm STEL | 30000 ppm STEV;<br>54000 mg/m3 STEV | 30000 ppm STEL;<br>54000 mg/m3 STEL | Not established                 |
|                              | TWAs   | 5000 ppm TWA   | 5000 ppm TWA   | 5000 ppm TWAEV;<br>9000 mg/m3 TWAEV | 5000 ppm TWA; 9000<br>mg/m3 TWA     | 5000 ppm TWA; 9000<br>mg/m3 TWA |

### 8.2 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

##### Pictograms

- 

##### 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 Controls**

- 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**

STEL = Short Term Exposure Limits are based on 15-minute exposures  
 STEV = Short Term Exposure Value  
 TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

ACGIH = American Conference of Governmental Industrial Hygiene  
 NIOSH = National Institute of Occupational Safety and Health  
 OSHA = Occupational Safety and Health Administration

**Section 9 - Physical and Chemical Properties****9.1 Information on Physical and Chemical Properties**

| <b>Material Description</b>                        |  |                                     |                             |
|--|--|-------------------------------------|-----------------------------|
| Physical Form                                      | Gas                                    | Appearance/Description              | Colorless gas with no odor. |
| Color  | Colorless                              | Odor                                | Odorless                    |
| Taste  | Data lacking                           | Particulate Type                    | Not relevant                |
| Particulate Size                                   | Not relevant                           | Aerosol Type                        | Not relevant                |
| Odor Threshold                                     | Not relevant                           | Physical and Chemical Properties    | Data lacking                |
| <b>General Properties</b>                          |  |                                     |                             |
| Boiling Point                                      | -78.4 C(-109.12 F)                     | Melting Point                       | Data lacking                |
| Decomposition Temperature                          | Data lacking                           | Heat of Decomposition               | Data lacking                |
| pH   | Not relevant                           | Specific Gravity/Relative Density   | 1.56 Water=1                |
| Density  | Data lacking                           | Bulk Density                        | Data lacking                |
| Water Solubility                                   | Slightly Soluble 1.45 g/L @ 20 C(68 F) | Solvent Solubility                  | Data lacking                |
| Viscosity  | Not relevant                           | Explosive Properties                | Not explosive.              |
| Oxidizing Properties:                              | Not an oxidizing gas.                  |                                     |                             |
| <b>Volatility</b>                                  |  |                                     |                             |
| Vapor Pressure                                     | 816 psig @ 20 C(68 F)                  | Vapor Density                       | 1.53 Air=1                  |
| Evaporation Rate                                   | Data lacking                           | VOC (Wt.)                           | Data lacking                |
| VOC (Vol.)   | Data lacking                           | Volatiles (Wt.)                     | Data lacking                |
| Volatiles (Vol.)                                   | Data lacking                           |                                     |                             |
| <b>Flammability</b>                                |  |                                     |                             |
| Flash Point  | Not relevant                           | UEL                                 | Not relevant                |
| LEL  | Not relevant                           | Autoignition                        | Not relevant                |
| Self-Accelerating Decomposition Temperature (SADT) | Not relevant                           | Heat of Combustion ( $\Delta H_c$ ) | Not relevant                |
| Burning Time                                       | Not relevant                           | Flame Duration                      | Not relevant                |
| Flame Height                                       | Not relevant                           | Flame Extension                     | Not relevant                |
| Ignition Distance                                  | Not relevant                           | Flammability (solid, gas)           | Not flammable.              |
| <b>Environmental</b>                               |  |                                     |                             |
| Half-Life  | Data lacking                           | Octanol/Water Partition coefficient | Data lacking                |

|                                       |              |                                    |              |
|---------------------------------------|--------------|------------------------------------|--------------|
| Coefficient of water/oil distribution | Data lacking | Bioaccumulation Factor             | Data lacking |
| Bioconcentration Factor               | Data lacking | Biochemical Oxygen Demand BOD/BOD5 | Data lacking |
| Chemical Oxygen Demand                | Data lacking | Persistence                        | Data lacking |
| Degradation                           | Data lacking |                                    |              |

## 9.2 Other Information

- No data available

## Section 10: Stability and Reactivity

### 10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

- Stable under normal temperatures and pressures.

### 10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur.

### 10.4 Conditions to avoid

- Excess heat.

### 10.5 Incompatible materials

- This material is weakly acidic and will react with alkaline materials to form carbonates and bicarbonates.

### 10.6 Hazardous decomposition products

- Under normal conditions of storage and use, hazardous decomposition products should not be produced. Carbon dioxide produces toxic carbon monoxide when heated above 1700 deg. C.

## Section 11 - Toxicological Information

### 11.1 Information on toxicological effects

| Carbon Dioxide (gas) 124-38-9 |              |            |         |   |         |            |               |          |
|-------------------------------|--------------|------------|---------|---|---------|------------|---------------|----------|
| Test Type                     | Dosage       | Route      | Species | Duration  | Results | Test Class | Target Organs | Comments |
| Acute Toxicity                | = 470000 ppm | Inhalation | Rat     | 30 Minute(s)  | LC50    | NDA        | NDA           | NDA      |
| Reproductive                  | = 2 pph      | Inhalation | Mouse   | 8 Hour(s)   | TCLo    | NDA        | NDA           | NDA      |
| Reproductive                  | = 13 pph     | Inhalation | Rabbit  | 4 Hour(s)   | TCLo    | NDA        | NDA           | NDA      |
| Reproductive                  | = 6 pph      | Inhalation | Rat     | 24 Hour(s)  | TCLo    | NDA        | NDA           | NDA      |
| GHS Properties                |              |            |         | Classification  |         |            |               |          |
| Acute toxicity                |              |            |         | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Classification criteria not met |         |            |               |          |
| Aspiration Hazard             |              |            |         | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Classification criteria not met |         |            |               |          |

|                                      |   |
|--------------------------------------|---|
| <b>Carcinogenicity</b>               | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Classification criteria not met |
| <b>Germ Cell Mutagenicity</b>        | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Classification criteria not met |
| <b>Skin corrosion/Irritation</b>     | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Classification criteria not met |
| <b>Skin sensitization</b>            | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Classification criteria not met |
| <b>STOT-RE</b>                       | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Classification criteria not met |
| <b>STOT-SE</b>                       | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Classification criteria not met |
| <b>Toxicity for Reproduction</b>     | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Classification criteria not met |
| <b>Respiratory sensitization</b>     | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Classification criteria not met |
| <b>Serious eye damage/Irritation</b> | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Classification criteria not met |

**Route(s) of entry/exposure**

- Inhalation, Skin and Eye

**Potential Health Effects****Inhalation****Acute (Immediate)**

- If this material is released in a small, poorly ventilated area (i.e. an enclosed or confined space), an oxygen-deficient environment may occur. Individuals breathing such an atmosphere may experience symptoms which include headaches, ringing in ears, dizziness, drowsiness, unconsciousness, nausea, vomiting, and depression of all the senses. Under some circumstances of over-exposure, death may occur. The following effects associated with decreased levels of oxygen: increase in breathing and pulse rate, emotional upset, abnormal fatigue, nausea, vomiting, collapse, loss of consciousness, convulsive movements, respiratory collapse and death.

**Chronic (Delayed)**

- No data available

**Skin****Acute (Immediate)**

- Contact with rapidly expanding gas may cause burns or frostbite.

**Chronic (Delayed)**

- Under normal conditions of use, no health effects are expected.

**Eye****Acute (Immediate)**

- Contact with rapidly expanding gas may cause burns or frostbite.

**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.

**Mutagenic Effects**

- This substance is not expected to cause mutagenic effects.

**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.

**Key to abbreviations**

TC = Toxic Concentration

LC = Lethal Concentration



## Section 12 - Ecological Information

### 12.1 Toxicity

- Material data lacking.

### 12.2 Persistence and degradability

- Material data lacking.

### 12.3 Bioaccumulative potential

- Material data lacking.

### 12.4 Mobility in Soil

- Material data lacking.

### 12.5 Results of PBT and vPvB assessment

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

### 12.6 Other adverse effects

- Material data lacking.

## Section 13 - Disposal Considerations

### 13.1 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

|           | 14.1 UN number | 14.2 UN proper shipping name | 14.3 Transport hazard class(es) | 14.4 Packing group | 14.5 Environmental hazards |
|-----------|----------------|------------------------------|---------------------------------|--------------------|----------------------------|
| DOT       | UN1013         | Carbon dioxide               | 2.2                             | NDA                | NDA                        |
| TDG       | UN1013         | CARBON DIOXIDE               | 2.2                             | NDA                | NDA                        |
| IMO/IMDG  | UN1013         | CARBON DIOXIDE               | 2.2                             | NDA                | NDA                        |
| IATA/ICAO | UN1013         | Carbon dioxide               | 2.2                             | NDA                | NDA                        |

### 14.6 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.

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

- Not relevant.

## Section 15 - Regulatory Information

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

**SARA Hazard Classifications** • Acute, Pressure(Sudden Release of)

| State Right To Know |          |     |     |     |
|---------------------|----------|-----|-----|-----|
| Component           | CAS      | MA  | NJ  | PA  |
| Carbon dioxide      | 124-38-9 | Yes | Yes | Yes |

| Inventory      |          |            |             |      |
|----------------|----------|------------|-------------|------|
| Component      | CAS      | Canada DSL | Canada NDSL | TSCA |
| Carbon dioxide | 124-38-9 | Yes        | No          | Yes  |

## Canada

### Labor

#### Canada - WHMIS - Classifications of Substances

- Carbon dioxide 124-38-9 > 99% A; Uncontrolled product according to WHMIS classification criteria (solid)

#### Canada - WHMIS - Ingredient Disclosure List

- Carbon dioxide 124-38-9 > 99% 1 %

### Environment

#### Canada - CEPA - Priority Substances List

- Carbon dioxide 124-38-9 > 99% Not Listed

## United States

### Labor

#### U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

- Carbon dioxide 124-38-9 > 99% Not Listed

#### U.S. - OSHA - Specifically Regulated Chemicals

- Carbon dioxide 124-38-9 > 99% Not Listed

### Environment

#### U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

- Carbon dioxide 124-38-9 > 99% Not Listed

#### **U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities**

- Carbon dioxide 124-38-9 > 99% Not Listed

#### **U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities**

- Carbon dioxide 124-38-9 > 99% Not Listed

#### **U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs**

- Carbon dioxide 124-38-9 > 99% Not Listed

#### **U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs**

- Carbon dioxide 124-38-9 > 99% Not Listed

#### **U.S. - CERCLA/SARA - Section 313 - Emission Reporting**

- Carbon dioxide 124-38-9 > 99% Not Listed

#### **U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing**

- Carbon dioxide 124-38-9 > 99% Not Listed

## **United States - California**

### **Environment**

#### **U.S. - California - Proposition 65 - Carcinogens List**

- Carbon dioxide 124-38-9 > 99% Not Listed

#### **U.S. - California - Proposition 65 - Developmental Toxicity**

- Carbon dioxide 124-38-9 > 99% Not Listed

#### **U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)**

- Carbon dioxide 124-38-9 > 99% Not Listed

#### **U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)**

- Carbon dioxide 124-38-9 > 99% Not Listed

#### U.S. - California - Proposition 65 - Reproductive Toxicity - Female

- Carbon dioxide 124-38-9 > 99% Not Listed

#### U.S. - California - Proposition 65 - Reproductive Toxicity - Male

- Carbon dioxide 124-38-9 > 99% Not Listed

## United States - Pennsylvania

### Labor

#### U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

- Carbon dioxide 124-38-9 > 99% Not Listed

#### U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances

- Carbon dioxide 124-38-9 > 99% Not Listed

## 15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

## Section 16 - Other Information

|  |   |
|--|---|
| <b>Last Revision Date</b>                | <ul style="list-style-type: none"> <li>• 19/September/2012</li> </ul>   |
| <b>Preparation Date</b>                  | <ul style="list-style-type: none"> <li>• 19/September/2012</li> </ul>   |
| <b>Disclaimer/Statement of Liability</b> | <ul style="list-style-type: none"> <li>• 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.</li> </ul> |

### Key to abbreviations

NDA = No Data Available