

Safety Data Sheet P-4574

This SDS conforms to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication.

Date of issue: 01/01/1980 Revision date: 10/17/2016 Supersedes: 07/19/2016

## **SECTION: 1. Product and company identification**

**Product identifier** 

Product form : Substance Name : Carbon dioxide CAS No 124-38-9 Formula : CO2

Other means of identification : Medipure® Carbon Dioxide, Extendapak® EX-2, Refrigerant gas R744, carbonic anhydride,

carbonic acid gas

#### 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. 10 Riverview Drive

Danbury, CT 06810-6268 - USA

T 1-800-772-9247 (1-800-PRAXAIR) - F 1-716-879-2146

www.praxair.com

### **Emergency telephone number**

Emergency number : Onsite Emergency: 1-800-645-4633

CHEMTREC, 24hr/day 7days/week

Within USA: 1-800-424-9300, Outside USA: 001-703-527-3887

(collect calls accepted, Contract 17729)

### **SECTION 2: Hazard identification**

### Classification of the substance or mixture

### **GHS-US** classification

Liquefied gas H280

#### 22 **Label elements**

### **GHS-US** labeling

Hazard pictograms (GHS-US)



: WARNING

Signal word (GHS-US)

Hazard statements (GHS-US) H280 - CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED

OSHA-H01 - MAY DISPLACE OXYGEN AND CAUSE RAPID SUFFOCATION

CGA-HG01 - MAY CAUSE FROSTBITE

CGA-HG03 - MAY INCREASE RESPIRATION AND HEART RATE

: P202 - Do not handle until all safety precautions have been read and understood Precautionary statements (GHS-US)

P261 - Avoid breathing gas

P262 - Do not get in eyes, on skin, or on clothing

P271+P403 - Use and store only outdoors or in a well-ventilated place CGA-PG05 - Use a back flow preventive device in the piping CGA-PG10 - Use only with equipment rated for cylinder pressure

CGA-PG06 - Close valve after each use and when empty

CGA-PG02 - Protect from sunlight when ambient temperature exceeds 52°C (125°F)



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### 2.3. Other hazards

Other hazards not contributing to the classification

: Asphyxiant in high concentrations

Contact with liquid may cause cold burns/frostbite

**WARNING:** Concentration levels of carbon dioxide above about 1 percent are dangerous. Praxair recommends continuous monitoring with alarms to indicate unsafe conditions before and during potential personnel exposure. Use appropriate monitoring devices to ensure a safe oxygen level (minimum of 19.5 percent) and a safe carbon dioxide level.

#### 2.4. Unknown acute toxicity (GHS US)

No data available

# **SECTION 3: Composition/Information on ingredients**

### 3.1. Substance

Name : Carbon dioxide CAS No : 124-38-9

Name		Product identifier	%	
	Carbon dioxide	(CAS No) 124-38-9	99.5 - 100	

#### 3.2. Mixture

Not applicable

### **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, with supplemental oxygen given by qualified personnel. If breathing is difficult, qualified personnel should give oxygen. Call a physician.

First-aid measures after skin contact

: MAY CAUSE FROSTBITE. For exposure to liquid, cold vapor, or solid carbon dioxide (dry ice), immediately warm frostbite area with warm water not to exceed 41°C (105°F). Water temperature should be tolerable to normal skin. Maintain skin warming for at least 15 minutes or until normal coloring and sensation have returned to the affected area. In case of massive exposure, remove clothing while showering with warm water. Seek medical evaluation and treatment as soon as possible.

First-aid measures after eye contact

Immediately flush eyes thoroughly with water for at least 15 minutes. Hold the eyelids open and away from the eyeballs to ensure that all surfaces are flushed thoroughly. Contact an ophthalmologist immediately.

First-aid measures after ingestion

: Ingestion is not considered a potential route of exposure.

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

No additional information available

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

None.

### **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

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

### 5.2. Special hazards arising from the substance or mixture

Explosion hazard

: Heat of fire can build pressure in container and cause it to rupture. Containers are equipped with a pressure relief device. (Exceptions may exist where authorized by DOT.) No part of the container should be subjected to a temperature higher than 125°F (52°C).

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



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5.3. Advice for firefighters

Firefighting instructions : WARNING! Liquid and gas under pressure.

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.

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

by DOT [U.S.] or TC [Canada].).

### **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures

: WARNING! Liquid and gas under pressure.. Rapid release of gaseous carbon dioxide through a pressure relief device (PRD) or valve can result in the formation of dry ice, which is very cold and can cause frostbite..

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.

### 6.3. Methods and material for containment and cleaning up

For containment

Prevent waste from contaminating the surrounding environment. Discard any product, residue, disposable container, or liner in an environmentally acceptable manner, in full compliance with federal, provincial, and local regulations. If necessary, call your local supplier for assistance.

6.4. Reference to other sections

See also sections 8 and 13.

### SECTION 7: Handling and storage

## 7.1. Precautions for safe handling

Precautions for safe handling

: Avoid breathing gas

Do not get in eyes, on skin, or on clothing

This gas is heavier than air and in an enclosed space tends to accumulate near the floor, displacing air and pushing it upward. This creates an oxygen-deficient atmosphere near the floor. Ventilate space before entry. Verify sufficient oxygen concentration

WARNING: Concentration levels of carbon dioxide above about 1 percent are dangerous. Praxair recommends continuous monitoring with alarms to indicate unsafe conditions before and during potential personnel exposure. Use appropriate monitoring devi

conditions before and during potential personnel exposure. Use appropriate monitoring devices to ensure a safe oxygen level (minimum of 19.5 percent) and a safe carbon dioxide level

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



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### 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

This gas is heavier than air and in an enclosed space tends to accumulate near the floor, displacing air and pushing it upward. This creates an oxygen-deficient atmosphere near the floor. Ventilate space before entry. Verify sufficient oxygen concentration.

#### 7.3. Specific end use(s)

None.

### **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

Carbon dioxide (124-38-9)				
ACGIH	ACGIH TLV-TWA (ppm)	5000 ppm		
ACGIH	ACGIH TLV-STEL (ppm)	30000 ppm		
USA OSHA	OSHA PEL (TWA) (mg/m³)	9000 mg/m³		
USA OSHA	OSHA PEL (TWA) (ppm)	5000 ppm		
USA IDLH	US IDLH (ppm)	40000 ppm		
ACGIH	Not established			
USA OSHA	Not established			
Carbon dioxide (124-38-9)	Carbon dioxide (124-38-9)			
ACGIH	ACGIH TLV-TWA (ppm)	5000 ppm		
ACGIH	ACGIH TLV-STEL (ppm)	30000 ppm		
USA OSHA	OSHA PEL (TWA) (mg/m³)	9000 mg/m³		
USA OSHA	OSHA PEL (TWA) (ppm)	5000 ppm		

#### 8.2. Exposure controls

Appropriate engineering controls

: Use a local exhaust system with sufficient flow velocity to maintain an adequate supply of air in the worker's breathing zone. Mechanical (general): General exhaust ventilation may be acceptable if it can maintain an adequate supply of air. WARNING: Concentration levels of carbon dioxide above about 1 percent are dangerous. Praxair recommends continuous monitoring with alarms to indicate unsafe conditions before and during potential personnel exposure. Use appropriate monitoring devices to ensure a safe oxygen level (minimum of 19.5 percent) and a safe carbon dioxide level.

Materials for protective clothing

: Wear work gloves and metatarsal shoes for cylinder handling. Protective equipment where needed. Select in accordance with OSHA 29 CFR 1910.132, 1910.136, and 1910.138.

Eye protection

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

Skin and body protection

: As needed for welding, wear hand, head, and body protection to help prevent injury from radiation and sparks. (See ANSI Z49.1.) At a minimum, this includes welder's gloves and protective goggles, and may include arm protectors, aprons, hats, and shoulder protection as well as substantial clothing.

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.

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### **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state : Gas

Appearance : Colorless gas.

Molecular mass : 44 g/mol

Color : Colorless.

Odor : Odorless.

Odor threshold No data available рH : 3.7 (carbonic acid) Relative evaporation rate (butyl acetate=1) No data available Relative evaporation rate (ether=1) : Not applicable. Melting point : No data available Freezing point : No data available : -78.5 °C (-109.3°F) Boiling point Flash point : No data available Critical temperature : 31 °C (87.7°F) Auto-ignition temperature : No data available Decomposition temperature No data available Flammability (solid, gas) : No data available 57.3 bar (831 psig) Vapor pressure

Relative vapor density at 20 °C : 762
Relative density : 1.22
Relative gas density : 1.52

Solubility : Water: 2000 mg/l Completely soluble.

Log Pow : 0.83

Log Kow: Not applicable.Viscosity, kinematic: Not applicable.Viscosity, dynamic: Not applicable.Explosive properties: Not applicable.

Oxidizing properties : None.

Explosion limits : No data available

9.2. Other information

Reactivity

10.1.

Critical pressure

Gas group : Liquefied gas

Additional information : Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground

level

## SECTION 10: Stability and reactivity

No re	activity hazard other than the effects described in sub-sections below

: 73.7 bar (1069 psig)

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Alkali metals, Alkaline earth metals, Acetylide forming metals, Chromium, Titanium > 1022°F (550°C), Uranium (U) > 1382°F (750°C), Magnesium > 1427°F (775°C).

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#### 10.6. **Hazardous decomposition products**

Electrical discharges and high temperatures decompose carbon dioxide into carbon monoxide and oxygen. The welding process may generate hazardous fumes and gases.

## **SECTION 11: Toxicological information**

### Information on toxicological effects

: Not classified Acute toxicity

: Not classified Skin corrosion/irritation

pH: 3.7 (carbonic acid)

Serious eye damage/irritation : Not classified

pH: 3.7 (carbonic acid)

Respiratory or skin sensitization Not classified Germ cell mutagenicity Not classified Carcinogenicity Not classified Reproductive toxicity : Not classified Specific target organ toxicity (single exposure) Not classified Specific target organ toxicity (repeated : Not classified exposure)

: Not classified Aspiration hazard

### **SECTION 12: Ecological information**

#### **Toxicity** 12.1.

Ecology - general : No ecological damage caused by this product.

## Persistence and degradability

Carbon dioxide (124-38-9)		
Persistence and degradability	No ecological damage caused by this product.	
Carbon dioxide (124-38-9)		
Persistence and degradability	No ecological damage caused by this product.	

### **Bioaccumulative potential**

Carbon dioxide (124-38-9)		
BCF fish 1	(no bioaccumulation)	
Log Pow 0.83		
Log Kow Not applicable.		
Bioaccumulative potential No ecological damage caused by this product.		
Carbon dioxide (124-38-9)		
BCF fish 1	(no bioaccumulation)	
Log Pow 0.83		
Log Kow Not applicable.		
Bioaccumulative potential No ecological damage caused by this product.		

#### **Mobility in soil** 12.4.

Carbon dioxide (124-38-9)		
Mobility in soil	No data available.	
Ecology - soil	No ecological damage caused by this product.	
Carbon dioxide (124-38-9)		
Mobility in soil	No data available.	
Ecology - soil	No ecological damage caused by this product.	

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12.5. Other adverse effects

Effect on ozone layer : None Global warming potential [CO2=1] : 1

Effect on the global warming : When discharged in large quantities may contribute to the greenhouse effect

## **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Waste treatment methods : May be vented to atmosphere in a well ventilated place. Discharge to atmosphere in large

quantities should be avoided. Do not discharge into any place where its accumulation could be

dangerous. Contact supplier if guidance is required.

Waste disposal recommendations : Do not attempt to dispose of residual or unused quantities. Return container to supplier.

### **SECTION 14: Transport information**

In accordance with DOT

Transport document description : UN1013 Carbon dioxide, 2.2

UN-No.(DOT) : UN1013
Proper Shipping Name (DOT) : Carbon dioxide

Class (DOT) : 2.2 - Class 2.2 - Non-flammable compressed gas 49 CFR 173.115

Hazard labels (DOT) : 2.2 - Non-flammable gas



#### **Additional information**

Emergency Response Guide (ERG) Number : 120

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) : 1013

Proper Shipping Name (IMDG) : CARBON DIOXIDE

Class (IMDG) : 2 - Gases MFAG-No : 120

Air transport

UN-No. (IATA) : 1013

Proper Shipping Name (IATA) : Carbon dioxide

Class (IATA) : 2

Civil Aeronautics Law : Gases under pressure/Gases nonflammable nontoxic under pressure

### **SECTION 15: Regulatory information**

## 15.1. US Federal regulations

Carbon dioxide (124-38-9)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory			
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard		
	Sudden release of pressure hazard		



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### 15.2. International regulations

#### **CANADA**

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

Listed on the Canadian DSL (Domestic Substances List)

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

Listed on the Canadian DSL (Domestic Substances List)

### **EU-Regulations**

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

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

### 15.2.2. National regulations

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

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the Canadian IDL (Ingredient Disclosure List)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on CICR (Turkish Inventory and Control of Chemicals)

### 15.3. US State regulations

or oo otato rogalationo		
Carbon dioxide(124-38-9)		
U.S California - Proposition 65 - Carcinogens List	No	
U.S California - Proposition 65 - Developmental Toxicity	No	
U.S California - Proposition 65 - Reproductive Toxicity - Female	No	
U.S California - Proposition 65 - Reproductive Toxicity - Male	No	
State or local regulations	U.S Massachusetts - Right To Know List U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List	

Carbon dioxide (124-38-9)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)
No	No	No	No	

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

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List



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### **SECTION 16: Other information**

Other information

: When you mix two or more chemicals, you can create additional, unexpected hazards. Obtain and evaluate the safety information for each component before you produce the mixture. Consult an industrial hygienist or other trained person when you evaluate the end product. Before using any plastics, confirm their compatibility with this product

Fumes and gases produced during welding and cutting processes can be dangerous to your health and may cause serious lung disease. KEEP YOUR HEAD OUT OF FUMES. DO NOT BREATHE FUMES AND GASES. Use enough ventilation, local exhaust, or both to keep fumes and gases from your breathing zone and the general area. Short-term overexposure to fumes may cause dizziness, nausea, and dryness or irritation of the nose, throat, and eyes; or may cause other similar discomfort. Contaminants in the air may add to the hazard of fumes and gases. One such contaminant, chlorinated hydrocarbon vapors from cleaning and degreasing activities, poses a special risk. DO NOT USE ELECTRIC ARCS IN THE PRESENCE OF CHLORINATED HYDROCARBON VAPORS—HIGHLY TOXIC PHOSGENE MAY BE PRODUCED. Metal coatings such as paint, plating, or galvanizing may generate harmful fumes when heated. Residues from cleaning materials may also be harmful. AVOID ARC OPERATIONS ON PARTS WITH PHOSPHATE RESIDUES (ANTI-RUST, CLEANING PREPARATIONS)—HIGHLY TOXIC PHOSPHINE MAY BE PRODUCED

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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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

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NFPA health hazard

 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

NFPA fire hazard

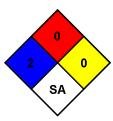
: 0 - Materials that will not burn.

NFPA reactivity

: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

NFPA specific hazard

: SA - This denotes gases which are simple asphyxiants.



### **HMIS III Rating**

Health : 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability : 0 Minimal Hazard
Physical : 3 Serious Hazard

SDS US (GHS HazCom 2012) - Praxair

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.