Safety Data Sheet P-4574

Extracting Solutions for Success

This SDS conforms to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication. Revision date: 10/17/2016 Date of issue: 01/01/1980

Supersedes: 07/19/2016

SECTION: 1. Product and company identification				
1.1. 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			
1.2. Relevant identified uses of the sul	bstance 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				
	Xtractor Depot			
	855 Washington Blvd.			
	Montebello, CA 90640			
	www.xtractordepot.com			
1.4. 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				
2.1. Classification of the substance or	mixture			
GHS-US classification				
Liquefied gas H280				
2.2. Label elements				
GHS-US labeling				
Hazard pictograms (GHS-US)				
Signal word (CUS US)				
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			
Precautionary statements (GHS-US)	: P202 - Do not handle until all safety precautions have been read and understood			
	P261 - Avoid breathing gas P262 - Do not get in every on skin, or on elething			
	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)			
	00.11002 - 10000000000000000000000000000000			

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tracting	g Solutions for Success	ate of issue: 01/01/1980 Revision date: 10/17/2016 Supersedes: 07/19/2016	
2.3.	Other hazards		
Other ha	azards not contributing to the	: Asphyxiant in high concentrations	
Classific	allon	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 dev to ensure a safe oxygen level (minimum of 19.5 percent) and a safe carbon dioxide level.	rices
2.4.	Unknown acute toxicity (G	US)	
		No data available	
SECT	ION 3: Composition/Inf	nation on ingredients	
3.1.	Substance		
Name		: Carbon dioxide	
CAS No)	: 124-38-9	
Name		Product identifier %	
Carbon	ı dioxide	(CAS No) 124-38-9 99.5 - 100	
3.2.	Mixture		
Not app	licable		
SECT	ION 4: First aid measur		
4.1.	Description of first aid mea	res	
First-aid	measures after inhalation	Remove to fresh air and keep at rest in a position comfortable for breathing. If not breathin give artificial respiration, with supplemental oxygen given by qualified personnel. If breathin difficult, qualified personnel should give oxygen. Call a physician.	
First-aid	l measures after skin contact	MAY CAUSE FROSTBITE. For exposure to liquid, cold vapor, or solid carbon dioxide (dry i 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 minu or until normal coloring and sensation have returned to the affected area. In case of massiv exposure, remove clothing while showering with warm water. Seek medical evaluation and treatment as soon as possible.	tes
First-aid	l measures after eye contact	 Immediately flush eyes thoroughly with water for at least 15 minutes. Hold the eyelids open away from the eyeballs to ensure that all surfaces are flushed thoroughly. Contact an ophthalmologist immediately. 	and
First-aid	I measures after ingestion	: Ingestion is not considered a potential route of exposure.	
4.2.	Most important symptoms	d effects, both acute and delayed	
		No additional information available	
4.3. None.	Indication of any immediat	nedical attention and special treatment needed	
SECT	ION 5: Firefighting mea	res	
5.1.	Extinguishing media		
	ovtinguishing modia		

Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.
5.2. Special hazards arising from the sub	ostance 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 inf	ormation :	Containers are equipped with a pressure relief device. (Exceptions may exist where authorized by DOT [U.S.] or TC [Canada].).	
SECTI	ON 6: Accidental release measu	res	
6.1.	Personal precautions, protective equip	oment 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		
For conta	ainment :	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.	
SECTI	ON 7: Handling and storage		
7.1.	Precautions for safe handling		
Precautio	ons 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 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.	

XTRACTOR Carbon dioxide DEPO

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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 TLV-TWA (ppm)	5000 ppm			
ACGIH TLV-STEL (ppm)	30000 ppm			
OSHA PEL (TWA) (mg/m ³)	9000 mg/m³			
OSHA PEL (TWA) (ppm)	5000 ppm			
US IDLH (ppm)	40000 ppm			
Not established	Not established			
Not established	Not established			
3-9)				
ACGIH TLV-TWA (ppm)	5000 ppm			
ACGIH TLV-STEL (ppm)	30000 ppm			
OSHA PEL (TWA) (mg/m ³) 9000 mg/m ³				
OSHA PEL (TWA) (ppm)	5000 ppm			
	3-9) ACGIH TLV-TWA (ppm) ACGIH TLV-STEL (ppm) OSHA PEL (TWA) (mg/m³) OSHA PEL (TWA) (ppm) US IDLH (ppm) Not established Not established B-9) ACGIH TLV-TWA (ppm) ACGIH TLV-TWA (ppm) OSHA PEL (TWA) (mg/m³)	3-9) ACGIH TLV-TWA (ppm) 5000 ppm ACGIH TLV-STEL (ppm) 30000 ppm OSHA PEL (TWA) (mg/m³) 9000 mg/m³ OSHA PEL (TWA) (ppm) 5000 ppm US IDLH (ppm) 40000 ppm Not established		

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 chemica	l properties
9.1. Information on basic physical and	I chemical properties
Physical state	: Gas
Appearance	: Colorless gas.
Molecular mass	: 44 g/mol
Color	: Colorless.
Odor	: Odorless.
Odor threshold	: No data available
рН	: 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
Boiling point	: -78.5 °C (-109.3°F)
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
Vapor pressure	: 57.3 bar (831 psig)
Critical pressure	: 73.7 bar (1069 psig)
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	
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 reactivit	ty
10.1. Reactivity	
40.2 Chemical statility	No reactivity hazard other than the effects described in sub-sections below.
10.2. Chemical stability	Stable under normal conditions.
10.3. Possibility of hazardous reactions	
	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				
11.1. Information on toxicological effects				
Acute toxicity	: Not classified			
Skin corrosion/irritation	: Not classified			
Serious eye damage/irritation	pH: 3.7 (carbonic acid) : 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 exposure)	: Not classified			
Aspiration hazard	: Not classified			
SECTION 12: Ecological information	n			
12.1. Toxicity				
Ecology - general	: No ecological damage caused by this product.			
12.2. 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.			
12.3. 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.			
12.4. Mobility in soil				
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)	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 consideratior	IS
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	2
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	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)
	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)
UN-No. (IMDG)	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.
UN-No. (IMDG) Proper Shipping Name (IMDG)	 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. 1013
UN-No. (IMDG) Proper Shipping Name (IMDG) Class (IMDG)	 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. correctly fitted Ensure valve protection device (where provided) is correctly fitted. 1013 CARBON DIOXIDE
UN-No. (IMDG) Proper Shipping Name (IMDG) Class (IMDG) MFAG-No	 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. correctly fitted Ensure valve protection device (where provided) is correctly fitted. 1013 CARBON DIOXIDE 2 - Gases
UN-No. (IMDG) Proper Shipping Name (IMDG) Class (IMDG) MFAG-No Air transport	 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. correctly fitted Ensure valve protection device (where provided) is correctly fitted. 1013 CARBON DIOXIDE 2 - Gases
Transport by sea UN-No. (IMDG) Proper Shipping Name (IMDG) Class (IMDG) MFAG-No Air transport UN-No. (IATA) Proper Shipping Name (IATA)	 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. 1013 CARBON DIOXIDE 2 - Gases 120
UN-No. (IMDG) Proper Shipping Name (IMDG) Class (IMDG) MFAG-No Air transport UN-No. (IATA)	 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. 1013 CARBON DIOXIDE 2 - Gases 120 1013
UN-No. (IMDG) Proper Shipping Name (IMDG) Class (IMDG) MFAG-No Air transport UN-No. (IATA) Proper Shipping Name (IATA)	 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. 1013 CARBON DIOXIDE 2 - Gases 120 1013 Carbon dioxide
UN-No. (IMDG) Proper Shipping Name (IMDG) Class (IMDG) MFAG-No Air transport UN-No. (IATA) Proper Shipping Name (IATA) Class (IATA)	 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. 1013 CARBON DIOXIDE 2 - Gases 120 1013 Carbon dioxide 2 Gases under pressure/Gases nonflammable nontoxic under pressure

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

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Carbon dioxide

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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

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 -	U.S California -	U.S California -	U.S California -	Non-significant risk level
	Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
	Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity - Male	
	-		Female		
	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				
	J.S Pennsylvania - RTK (Right to Know) List				

XTRACTOR DEPOT Carbon dioxide Safety Data Sheet P-4

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SECTION 16: Other information	
Other information	: When you mix two or more chemicals, you can create additional, unexpected hazards. Obtair 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 fume 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
	Praxair SDSs are furnished on sale or delivery by Praxair or the independent distributors and suppliers who package and sell our products. To obtain current SDSs for these products, contact your Praxair sales representative, local distributor, or supplier, or download from www.praxair.com. If you have questions regarding Praxair SDSs, would like the document number and date of the latest SDS, or would like the names of the Praxair suppliers in your area, phone or write the Praxair Call Center (Phone: 1-800-PRAXAIR/1-800-772-9247; Address: Praxair Call Center, Praxair, Inc, P.O. Box 44, Tonawanda, NY 14151-0044)
	Praxair asks users of this product to study this SDS and become aware of the product hazard 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
	PRAXAIR, the Flowing Airstream design, Medipure, and the Medipure design are trademarks or registered trademarks of Praxair Technology, Inc. in the United States and/or other countries.
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

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.

: 3 Serious Hazard

EN (English US)

Physical

SDS ID: P-4574