

# Safety Data Sheet Carbon Dioxide, Liquid

#### **Section 1: Product and Company Identification**

Cee Kay Supply, Inc 5835 Manchester Avenue Saint Louis, MO 63110 www.CKSupply.com (314) 644-3500

Product Code: Carbon Dioxide, Liquid

## Section 2: Hazards Identification



Hazard Classification: Gases Under Pressure

**Hazard Statements:** 

Contains gas under pressure; may explode if heated

**Precautionary Statements** 

Storage:

Protect from sunlight.
Store in well-ventilated place.

#### **Section 3: Composition/Information on Ingredients**

**CAS #** 124-38-9

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Chemical Substance	Chemical Family	Trade Names
CARBON DIOXIDE, LIQUID	Inorganic gases	Carbon dioxide (cryogenic liquid), LCO2, liquefied CO2

## **Section 4: First Aid Measures**

Skin Contact	Eye Contact	Ingestion	Inhalation	Note to Physicians
If frostbite or freezing occur, immediately flush with plenty of lukewarm water (105-115 F; 41-46 C). DO NOT USE HOT WATER. If warm water is not available, gently wrap affected parts in blankets. Get immediate medical attention.	Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.	Do not induce vomiting.	If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.	For inhalation, consider oxygen.

## **Section 5: Fire Fighting Measures**

Suitable Extinguishing Media	Products of Combustion	Protection of Firefighters
Non-flammable	Non-flammable	■ Non-flammable
		<ul><li>Non-flammable</li></ul>

#### **Section 6: Accidental Release Measures**

Personal Precautions	Environmental Precautions	Methods for Containment
Keep unnecessary people away, isolate hazard area and	Subject to California Safe Drinking Water and Toxic	Stop leak if possible
deny entry. Ventilate closed spaces before entering. Do not touch spilled material.	Enforcement Act of 1986 (Proposition 65). Keep out of water supplies and sewers.	without personal risk.

Methods for Cleanup	Other Information
Stop leak, evacuate.	None

## **Section 7: Handling and Storage**

Handling	Storage
Store and use with adequate ventilation. Firmly secure cylinders upright to	Do not get liquid in eyes, on skin, or clothing. Protect cylinders
keep them from falling or being knocked over. Screw valve protection cap	from damage. Use a suitable hand truck to move cylinders; do not
firmly in place by hand. Store only where temperature will not exceed 125 F	drag, roll, slide, or drop. Open valve slowly. Close cylinder valve
(52 C). Store full and empty cylinders separately. Use a first-in, first-out	after each use; keep closed even when empty. If valve is hard to
inventory system to prevent storing full cylinders for long periods.	open, discontinue use and contact your supplier

# Section 8: Exposure Controls/Personal Protection

Exposure Guidelines
OSHA PEL 5,000 ppm ACGIH TLV-TWA (2009) 5,000 ppm; 30,000 ppm, 15 min STEL

#### **Engineering Controls**

Handle only in fully enclosed systems.

Eye Protection	Skin Protection	Respiratory Protection
Wear splash resistant safety goggles. Contact lenses should not be worn. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.	Wear appropriate protective, cold insulating clothing.	Non-flammable

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#### **General Hygiene considerations**

- Avoid breathing vapor or mist
- Avoid contact with eyes and skin
- Wash thoroughly after handling and before eating or drinking

# **Section 9: Physical and Chemical Properties**

	Physical State	Appearance	Color	Change in Appearance	Physical Form	Odor	Taste
Ī	Liquid	Colorless	Colorless	N/A	Liquid	Odorless	Acid taste

Flash Point	Flammability	Partition Coefficient	Autoignition Temperature	Upper Explosive Limits	Lower Explosive Limits
Not flammable	Not available	N/A	Nonflammable	Nonflammable	Nonflammable

Boiling Point	Freezing Point	Vapor Pressure	Vapor Density	Specific Gravity	Water Solubility	рН	Odor Threshold	Evaporation Rate	Viscosity
Not available	-71 F (-57 C) @ 4000 mmHg	43700 mmHg @ 21 C	1.5 (Air=1)	1.522 @ 21 C	Soluble	3.7 (saturated aqueous solution) @ 101.3 kPa (carbonic acid)	Not available	Not applicable	0.01657 cP @ 0 C

Molecular Weight	Molecular Formula	Density	Weight per Gallon	Volatility by Volume	Volatility	Solvent Solubility
44.01	C-O2	0.114	Not available	Not applicable	Not	Soluble: Alcohol, acetone, hydrocarbons,
					applicable	organic solvents

# Section 10: Stability and Reactivity

Stability	Conditions to Avoid	Incompatible Materials
Stable at normal	Stable at normal	Oxidizing materials, metal salts, reducing agents, metal carbide, metals, bases, Alkali metals,
temperatures and	temperatures and	alkaline earth metals, metal acetylides, chromium, titanium above 1022 F (550 C), uranium
pressure.	pressure.	above 1382 F (750 C), magnesium above 1427 F (775 C)

Hazardous Decomposition Products	Possibility of Hazardous Reactions
Carbon monoxide	Will not polymerize.

## **Section 11: Toxicology Information**

#### **Acute Effects**

Oral LD50	Dermal LD50	Inhalation
Not	Not	Ringing in the ears, nausea, irregular heartbeat, headache, drowsiness, dizziness, tingling sensation, visual
established	established	disturbances, suffocation, convulsions, coma

Eye Irritation	Skin Irritation	Sensitization
Irritation, frostbite,	Liquid: blisters,	Asphyxiant OSHA-H01 - MAY DISPLACE OXYGEN AND CAUSE RAPID SUFFOCATION CGA -HG01 -
blurred vision	frostbite	MAY CAUSE FROSTBITE CGA - HG03 - MAY INCREASE RESPIRATION AND HEART RATE

#### **Chronic Effects**

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Carcinogenicity	Mutagenicity	Reproductive Effects	Developmental Effects			
Not available	Not established	Available.	No data			

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#### **Section 12: Ecological Information**

**Fate and Transport** 

Eco toxicity	Persistence / Degradability	Bioaccumulation / Accumulation	Mobility in Environment
Fish toxicity: 150000 ug/L 48 day(s) (Mortality) Brown trout (Salmo trutta) Invertibrate toxicity: Not available Algal toxicity: Not available Phyto toxicity: Not available Other toxicity: Not available	Relatively non-persistent in the environment. Moderately volatile from water.	Accumulates very little in the bodies of living organisms.	Leaches through the soil

## Section 13: Disposal Considerations

Dispose in accordance with all applicable regulations.

#### **Section 14: Transportation Information**

U.S. DOT 49 CFR 172.101

Proper Shipping Name	ID Number	Hazard Class or Division	Packing Group	Labeling Requirements	Passenger Aircraft or Railcar Quantity Limitations	Cargo Aircraft Only Quantity Limitations	Additional Shipping Description
Carbon dioxide	UN2187	2.2	Not applicable	Nonflammable gas	75 kg or L	150kg	None

Canadian Transportation of Dangerous Goods

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Shipping Name	UN Number	Class	Packing Group / Risk Group
Carbon dioxide	UN2187	2.2	Not applicable

#### **Section 15: Regulatory Information**

**U.S. Regulations** 

CERCLA Sections	SARA 355.30	SARA 355.40
Not regulated.	Not regulated.	Not regulated.

**SARA 370.21** 

Acute	Chronic	Fire	Reactive	Sudden Release
Yes	No	No	No	Yes

**SARA 372.65** 

Not regulated.

**OSHA Process Safety** 

Not regulated.

**State Regulations** 

CA Proposition 65 Not regulated.

**Canadian Regulations** 

WHMIS Classification

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#### **National Inventory Status**

US Inventory (TSCA)	TSCA 12b Export Notification	Canada Inventory (DSL/NDSL)
<u> </u>	·	Listed on inventory.

# **Section 16: Other Information**

<b>NFPA Rating</b>	
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HEALTH=3 FIRE=0 REACTIVITY=0 SPECIAL=SA

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

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