

# Safety Data Sheet SPECIALTY - CARBON DIOXIDE 99.998

**Central McGowan** 123 Roosevelt Road, St. Cloud, MN, 56301 800-569-1322

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

**Central McGowan** 

123 Roosevelt Road, St. Cloud, MN, 56301

Product Code: SPECIALTY - CARBON DIOXIDE 99.998

Synonyms: SPG CO2 UHP Q

Recommended Use: **Usage Restrictions:** 

## **Section 2: Hazards Identification**



Hazard Classification: Hazard Statements: **Precautionary Statements** 

Contains gas under pressure; may explode if heated

Storage:

Protect from sunlight.

Gases Under Pressure

Store in well-ventilated place.

## Section 3: Composition/Information on Ingredients

CAS# 124-38-9

Chemical Substance	Chemical Family	Trade Names
CARBON DIOXIDE, GAS	Inorganic gases	CARBONIC ACID GAS; CARBONIC ANHYDRIDE; CARBON DIOXIDE; CARBON OXIDE; UN 1013; CO2

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# 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.	Contact with liquid: Immediately 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	•	Any appropriate escape-type, self-contained breathing apparatus.	
		•	non-flammable	

#### **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	Enforcement Act of 1986 (Proposition 65). Keep out of	without personal risk.
touch spilled material.	water supplies and sewers.	

Methods for Cleanup	Other Information
Stop leak, evacuate, remove source of ignition.	None

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

Handling	Storage
Subject to storage regulations: U.S. OSHA 29 CFR 1910.101.	Store and handle in accordance with all current regulations and standards
Keep separated from incompatible substances.	_

## **Section 8: Exposure Controls/Personal Protection**

#### **Exposure Guidelines**

CARBON DIOXIDE, GAS: CARBON DIOXIDE: 5000 ppm (9000 mg/m3) OSHA TWA 10000 ppm (18000 mg/m3) OSHA TWA (vacated by 58 FR 35338, June 30, 1993) 30000 ppm (54000 mg/m3) OSHA STEL (vacated by 58 FR 35338, June 30, 1993) 5000 ppm ACGIH TWA 30000 ppm ACGIH STEL 5000 ppm (9000 mg/m3) NIOSH recommended TWA 10 hour(s) 30000 ppm (54000 mg/m3) NIOSH recommended STEL

#### **Engineering Controls**

Handle only in fully enclosed systems.

Eye Protection	Skin Protection	Respiratory Protection
For the gas: Eye protection not required, but recommended. For the liquid: 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.	For the gas: Protective clothing is not required. For the liquid: Wear appropriate protective, cold insulating clothing.  Wear insulated gloves.	Any appropriate escape- type, self-contained breathing apparatus.

#### **General Hygiene considerations**

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

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

Toolo	Fleek Deint	Flowmobility	Dartition Coefficient	Ataiamitiam	Haner Evalentis
Gas	Colorless	Colorless	N/A	Gas	Odorless
Physical State	Appearance	Color	Change in Appearance	Physical Form	Odor

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

Lower Explosive Limits	Boiling Point	Freezing Point	Vapor Pressure	Vapor Density	Specific Gravity
Nonflammable	Not available	-71 F (-57 C) @ 4000 mmHg	43700 mmHg @ 21 C	1.5 (Air=1)	1.522 @ 21 C

Water Solubility	рН	Odor Threshold	Evaporation Rate	Viscosity	Molecular Weight
Soluble	3.7 (saturated aqueous solution) @ 101.3 kPa (carbonic acid)	Not available	Not applicable	0.01657 cP @ 0 C	44.01

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

# Section 10: Stability and Reactivity

Stability	Conditions to Avoid	Incompatible Materials
Stable at normal temperatures and pressure.	1 , 3	Combustible materials, oxidizing materials, metal salts, reducing agents, metal carbide, metals, bases

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

# **Section 11: Toxicology Information**

## **Acute Effects**

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

Eye Irritation	Skin Irritation	Sensitization
Irritation, frostbite, blurred vision	Liquid: blisters, frostbite	Difficulty breathing

## **Chronic Effects**

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

## **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	UN1013	2.2	Not applicable	2.2	75 kg or L	150kg	None

**Canadian Transportation of Dangerous Goods** 

Shipping Name	UN Number	Class	Packing Group / Risk Group
Carbon dioxide	UN1013	2.2	Not applicable

## **Section 15: Regulatory Information**

**U.S. Regulations** 

Γ	CERCLA Sections	SARA 355.30	SARA 355.40	
ľ	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)
Listed on inventory.	Not listed.	Listed on inventory.

# **Section 16: Other Information**

NFPA Rating	
HEALTH=3 FIRE=0 REACTIVITY=0 SPECIAL=SA	

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