

Safety Data Sheet SPECIALTY - CARBON DIOXIDE 4.5

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 4.5

Synonyms: SPG CO2 4.5 60#

Recommended Use: Usage Restrictions:

Section 2: Hazards Identification



Hazard Classification:
Hazard Statements:

Procautionary Statement

Precautionary Statements

Storage:

Gases Under Pressure

Contains gas under pressure; may explode if heated

Protect from sunlight.

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

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.

ction Respiratory Protection
Protective clothing is not or the liquid: Wear protective, cold othing. Any appropriate escapetype, self-contained breathing apparatus.
c

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

Physical State	Appearance	Color	Change in Appearance	Physical Form	Odor
Gas	Colorless	Colorless	N/A	Gas	Odorless
Taste	Flash Point	Flammability	Partition Coefficient	Autoignition	Upper Explosive

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	pН	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.	Protect from physical damage and heat. Containers may rupture or explode if exposed to heat. Avoid contact with water or moisture.	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

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

SARA 370.21

	Acute	Chronic	Fire	Reactive	Sudden Release
ı	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