

# **Safety Data Sheet** SPECIALTY - CARBON MONOXIDE 98%

**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 MONOXIDE 98%

Synonyms: SPG CO 98% T

Recommended Use: Usage Restrictions:

#### **Section 2: Hazards Identification**



# Danger

Hazard Classification: Flammable (Category 1)

Gases Under Pressure

Reproductive Toxicity (Category 1.A)

Specific target organ toxicity (Repeated Exposure) (Category 1)

Acute Gas Inhale Toxicity (Category 3)

Hazard Statements: Extremely flammable gas

Contains gas under pressure; may explode if heated

May damage fertility or the unborn child

Causes damage to organs through prolonged or repeated exposure

Toxic if inhaled

**Precautionary Statements** 

Prevention: Avoid breathing dust/fume/gas/mist/ vapors/spray.

Do not breathe dust/fume/gas/mist/ vapors/spray.. Do not eat, drink or smoke when using this product.

Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Obtain special instructions before use.

Use only outdoors or in a well-ventilated area.

Wash thoroughly after handling.

Wear protective gloves, protective clothing, eye protection and face protection.

Response: Call a poison center or doctor if you feel unwell.

Call a poison center or doctor.

Eliminate all ignition sources if safe to do so.

If exposed or concerned: Get medical advice/attention.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

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Leaking gas fire: Do not extinguish, unless leak can be stopped safely.

Storage: Protect from sunlight.

Store in a well-ventilated place. Keep container tightly closed.

Store in well-ventilated place.

Store locked up.

Disposal: Dispose of contents and/or container in accordance with applicable regulations.

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

**CAS #** 630-08-0

Chemical Substance	Chemical Family	Trade Names
CARBON MONOXIDE	Inorganic gases	CARBON OXIDE; CARBON OXIDE (CO); UN 1016; CO

# **Section 4: First Aid Measures**

Skin Contact	Eye Contact	Ingestion	Inhalation	Note to Physicians
Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.	Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.	If a large amount is swallowed, get medical attention.	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
Carbon dioxide, regular dry chemical Large fires: Use regular foam or flood with fine water spray.	Carbon dioxide	<ul> <li>Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply.</li> <li>Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply.</li> </ul>

# **Section 6: Accidental Release Measures**

Personal Precautions	Environmental Precautions	Methods for Containment
Keep unnecessary people away, isolate hazard	Avoid heat, flames, sparks and other	Stop leak if possible without personal risk.
area and deny entry. Ventilate closed spaces	sources of ignition. Keep out of water	Reduce vapors with water spray. Remove
before entering.	supplies and sewers.	sources of ignition.

Methods for Cleanup	Other Information	
Stop leak, evacuate area. Wear protective equipment.	Subject to California Safe Drinking Water and Toxic	
	Enforcement Act of 1986 (Proposition 65).	

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

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

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

#### **Exposure Guidelines**

CARBON MONOXIDE: 50 ppm (55 mg/m3) OSHA TWA 35 ppm (40 mg/m3) OSHA TWA (vacated by 58 FR 35338, June 30, 1993) 200 ppm (229 mg/m3) OSHA ceiling (vacated by 58 FR 35338, June 30, 1993) 25 ppm ACGIH TWA 35 ppm (40 mg/m3) NIOSH recommended TWA 10 hour(s) 200 ppm (229 mg/m3) NIOSH recommended ceiling

#### **Engineering Controls**

Handle only in fully enclosed systems.

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Eye Protection	Skin Protection	Respiratory Protection	
Eye protection not required, but	Protective clothing is not	Any supplied-air respirator with full facepiece and operated in a pressure-demand	
recommended.	required.	or other positive-pressure mode in combination with a separate escape supply.	
	Wear appropriate		
	chemical resistant gloves.		

#### **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
Gas	Colorless	Colorless	N/A	Gas	Odorless
Taste	Flash Point	Flammability	Partition Coefficient	Autoignition Temperature	Upper Explosive Limits
Tasteless	Flammable	Not available	1479.11 (log = 3.17) (estimated from water solubility)	1128-1202 F (609- 650 C)	0.74
Lower Explosive	Boiling Point	Freezing Point	Vapor Pressure	Vapor Density	Specific Gravity
12.0-12.5%	-312.7 F (-191.5 C)	-326 F (-199 C)	760 mmHg @ -191 C gas; cannot be liquefied at room temperature	0.968 (Air=1)	Not applicable
Water Solubility	pH	Odor Threshold	Evaporation Rate	Viscosity	Molecular Weight
2.3% @ 20 C	Not applicable	Not available	Not applicable	0.01657 cP @ 0 C	28.01

Molecular Formula	Density	Weight per Gallon	Volatility by Volume	Volatility	Solvent Solubility
C-O	1.250 g/L @ 0 C	Not available	100%	Not applicable	Soluble : Alcohol, benzene, acetic acid, ethyl acetate, chloroform, cuprous chloride solutions

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# **Section 10: Stability and Reactivity**

Stability	Conditions to Avoid	Incompatible Materials
Stable at normal temperatures and pressure.	Avoid heat, flames, sparks and other sources of ignition. Minimize contact with material. Avoid inhalation of material or combustion byproducts. Keep out of water supplies and sewers.	Oxidizing materials, halogens, metal oxides, metals, combustible materials, lithium

Hazardous Decomposition Products	Possibility of Hazardous Reactions
Oxides of carbon	Will not polymerize.

# **Section 11: Toxicology Information**

#### **Acute Effects**

Oral LD50	Dermal LD50	Inhalation
LC50 Inhalation Gas. Rat 1807 ppm 4 hours	Not available	Changes in body temperature, changes in blood pressure, nausea, vomiting, chest pain, difficulty breathing, irregular heartbeat, headache, drowsiness, dizziness, disorientation, hallucinations, pain in extremities, tremors, loss of coordination, hearing loss, visual disturbances, eye damage, suffocation, blood disorders, convulsions, coma

Eye Irritation	Skin Irritation	Sensitization
No information on significant adverse effects	No information on significant adverse effects	Acute toxicity, Category 3, inhalation; H331: Toxic if inhaled. Reproductive toxicity, Category 1A; H360D: May damage the unborn child. Specific Target Organ Toxicity (repeated exposure), Category 1; H372: Causes damage to organs through prolonged or repeated exposure.

#### **Chronic Effects**

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

# **Section 12: Ecological Information**

**Fate and Transport** 

Eco toxicity	Persistence / Degradability	Bioaccumulation / Accumulation	Mobility in Environment
Fish toxicity: 75000 ug/L 1 day(s) LC100 (Mortality) Orangespotted sunfish (Lepomis humilis) Invertibrate toxicity: Not available Algal toxicity: Not available Phyto toxicity: Not available Other toxicity: Not available	Relatively non-persistent in the environment. Highly volatile from water.	Not available	Not expected to leach through the soil or the sediment.

# **Section 13: Disposal Considerations**

Dispose in accordance with all applicable regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): D001.

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### **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 monoxide, compressed	UN1016	2.3	Not applicable	2.3; 2.1	Forbidden	25 kg	Toxic-Inhalation Hazard Zone D

**Canadian Transportation of Dangerous Goods** 

Shipping Name	UN Number	Class	Packing Group / Risk Group
Carbon monoxide, compressed	UN1016	2.3; 2.1	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	Yes	No	Yes

#### **SARA 372.65**

Not regulated.

### **OSHA Process Safety**

Not regulated.

### State Regulations

### CA Proposition 65

WARNING: This product can expose you to chemicals including Carbon Monoxide, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

#### **Canadian Regulations**

Odriadian Regulations
WHMIS Classification
A, B1, D1A, D2A.

#### **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=2 FIRE=4 REACTIVITY=0	

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