

# Safety Data Sheet Carbon Monoxide

**Sidney Lee Welding Supply** 

2247 Highway US 19-41 Hampton, GA 30228 http://www.sidneylee.com

CHEMTREC - 24HR Emergency Contact 1-800-424-9300 ACCT: 20182

### Section 1: Product and Company Identification

**Sidney Lee Welding Supply** 

2247 Highway US 19-41 Hampton, GA 30228 http://www.sidneylee.com

CHEMTREC - 24HR Emergency Contact 1-800-424-9300 ACCT: 20182

Product Code: Carbon Monoxide

# Section 2: Hazards Identification



### Hazard Classification:

Acute Gas Inhale Toxicity (Category 3)
Flammable (Category 1)
Gases Under Pressure
Reproductive Toxicity (Category 1.A)
Specific target organ toxicity (Repeated Exposure) (Category 1)

### **Hazard Statements:**

Causes damage to organs through prolonged or repeated exposure Contains gas under pressure; may explode if heated Extremely flammable gas May damage fertility or the unborn child Toxic if inhaled

### **Precautionary Statements**

#### **Prevention:**

Do not breathe dust/fume/gas/mist/ vapors/spray..
Do not eat, drink or smoke when using this product.
[In case of inadequate ventilation] wear respiratory protection.
Do not handle until all safety precautions have been read and understood.

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

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

Obtain special instructions before use.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

#### Response:

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.

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

Call a poison center or doctor.

#### Storage:

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

Protect from sunlight.

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	-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.  -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.

page 2 of 5

Date of Preparation: 04/13/2021 10:41:47

### Section 6: Accidental Release Measures

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

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

# Section 7: Handling and Storage

Handling	Storage
Keep separated from	Store and handle in accordance with all current regulations and standards. Grounding and bonding required.
incompatible substances.	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.

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

### 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
Gas	Colorless	Colorless	N/A	Gas	Odorless	Tasteless

Flash Point	Flammability	Partition Coefficient	Autoignition Temperature	Upper Explosive Limits	Lower Explosive Limits
Flammable	Not available	1479.11 (log = 3.17) (estimated from water solubility)	1128-1202 F (609- 650 C)	0.74	12.0-12.5%

Boiling Point	Freezing Point	Vapor Pressure	Vapor Density	Specific Gravity	Water Solubility	рН	Odor Threshold	Evaporation Rate	Viscosity
-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	2.3% @ 20 C	Not applicable	Not available	Not applicable	0.01657 cP @ 0 C

Molecular Weight	Molecular Formula	Density	Weight per Gallon	Volatility by Volume	Volatility	Solvent Solubility
28.01		C-O1.250 g/L @ 0 C	Not available	100%		Soluble: Alcohol, benzene, acetic acid, ethyl acetate, chloroform, cuprous chloride solutions

Sidney Lee Welding Supply Generated by the SDS Manager from AsteRisk, LLC. All Rights Reserved page 3 of 5

Date of Preparation: 04/13/2021 10:41:47

# Section 10: Stability and Reactivity

Stability	Conditions to Avoid	Incompatible Materials
Stable at normal temperatures and	Stable at normal temperatures and	Oxidizing materials, halogens, metal oxides, metals, combustible
pressure.	pressure.	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		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.

# 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		Not applicable	2.3; 2.1	Forbidden	J	Toxic-Inhalation Hazard Zone D

Sidney Lee Welding Supply Generated by the SDS Manager from AsteRisk, LLC. All Rights Reserved

page 4 of 5

Date of Preparation: 04/13/2021 10:41:47

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

WHMIS Classification
A, B1, D1A, D2A.

National Inventory Status

US Inventory (TSCA)		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