

# MATERIAL SAFETY DATA SHEET

For R&D use only. Not for drug, household or other uses.

Click <http://www.lookchem.com/cas-630/630-08-0.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**  
630-08-0  
**Code:**  
M

**RTECS:**  
FG3500000  
**Code:**  
M

**Name:**  
CARBON MONOXIDE

**Other REC Limits:**  
N/R

**OSHA PEL:**  
50 PPM  
**Code:**  
M

**OSHA STEL:**

**Code:**

**ACGIH TLV:**  
25 PPM; 9293  
**Code:**  
M

**ACGIHSTEL:**  
N/P  
**Code:**

## Control Measures

**Respiratory Protection:**  
WHERE ENVIRONMENTAL CONTROLS ARE LACKING OR IN ENCLOSED SPACES USE A SELF-CONTAINED BREATHING APPARATUS.

**Ventilation:**  
LOCAL VENTILATION AT THE WORKSITE;MECHANICAL(GENERAL) VENTILATION TO MAINTAIN TLV/PEL.USE EXPLOSION-PROOF EQUIPMENT.

**Protective Gloves:**  
CLOTH OR LEATHER WORK GLOVES

**Eye Protection:**  
CHEMICAL SAFETY GOGGLES

**Other Protective Equipment:**  
Equipment SAFETY SHOES WHEN HANDLING CYLINDERS.

**Work Hygienic Practices:**  
USE REASONABLE CARE IN HANDLING THIS PRODUCT.

**Supplemental Safety and Health:**  
NONE 4

## Health Hazards Data

**LD50LC50Mixture:**  
LC50 INHAL RAT = 1807 PPM / 4 HOURS

**Route Of Entry Inds - Inhalation:**  
YES

**Skin:**  
NO

**Ingestion:**  
NO

**Carcinogenicity Inds - NTP:**  
NO

**IARC:**  
NO

**OSHA:**  
NO

**Health Hazards Acute And Chronic:**  
\*\*POISONOUS\*\* MATERIAL IS HIGHLY TOXIC BY REDUCING BLOOD OXYGEN CARRYING CAPACITY. EXCESSIVE EXPOSURE MAY BE FATAL.

**Explanation Of Carcinogenicity:**  
THERE ARE NO INGREDIENTS ABOVE 0.1% WHICH ARE IDENTIFIED AS CARCINOGENS BY NTP,IARC OR OSHA.

**Signs And Symptoms Of Overexposure:**  
2 SYMPTOMS OF OVEREXPOSURE ARE SHORTNESS OF BREATH, HEADACHE, CONFUSION, NAUSEA, AND DIZZINESS.

**Medical Cond Aggravated By Exposure:**  
PERSONS WITH PRE-EXISTING RESPIRATORY AILMENTS MAY BE AT INCREASED RISK FROM EXPOSURE.

**First Aid:**  
INHAL:IMMEDIATELY REMOVE VICTIM TO FRESH AIR. LAY ON STOMACH WITH HEAD TO SIDE. IF BREATHING ADMINISTER OXYGEN. IF NOT BREATHING, ADMINISTER ARTIFICIAL RESPIRATION AND OXYGEN SIMULTANEOUSLY. GET MEDICAL ATTENTION IMMEDIATELY.

**Spill Release Procedures:**  
EVACUATE AND VENTILATE AREA. ELIMINATE SOURCES OF IGNITION. IF POSSIBLE REMOVE LEAKING CYLINDER TO OUTDOORS OR TO A FUME HOOD.

**Neutralizing Agent:**  
NOT APPLICABLE

**Waste Disposal Methods:**  
DISPOSE OF IN ACCORDANCE WITH FEDERAL,STATE AND LOCAL REGULATIONS.RETURN CYLINDERS,WITH CAPS AND PLUGS SECURE,TO SUPPLIER.

**Handling And Storage Precautions:**  
STORE IN WELL VENTILATED AREAS ONLY. KEEP VALVE PROTECTION CAP ON CYLINDERS WHEN NOT IN USE.SECURE CYLINDERS TO PROTECT FROM FALLING.

**Other Precautions:**  
USE SUITABLE HAND TRUCK TO MOVE CYLINDERS. KEEP AWAY FROM DIRECT SUNLIGHT, RAIN, SNOW. STORE ABOVE GROUND. RETURN TO SUPPLIER WITH 25 PSIG PRESENT. PROTECT CONTAINERS FROM PHYSICAL DAMAGE. DO NOT DEFACE CYLINDERS OR LABELS.

## Fire and Explosion Hazard Information

**Flash Point Method:**  
N/P

**Flash Point:**

**Flash Point Text:**  
NONE

**Autoignition Temp:**

**Autoignition Temp Text:**  
N/K

**Lower Limits:**  
12.5

**Upper Limits:**  
74.0 3

**Extinguishing Media:**  
USE DRY CHEMICAL, CARBON DIOXIDE, HALON.

**Fire Fighting Procedures:**  
WHEN POSSIBLE,ALLOW TO FIRE TO BURN ITSELF OUT.USE A SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE EQUIPMENT.COOL FIRE EXPOSED CONTAINERS W/ WATER FOG.

**Unusual Fire/Explosion Hazard:**  
SEVERE EXPLOSION HAZARD WHEN EXPOSED TO FLAME. DANGEROUS FIRE/EXPLOSION HAZARD WHEN MIXED WITH AIR. SHUT OFF CO SOURCE TO PREVENT EXPLOSION FROM REIGNITION.

## Physical/Chemical Properties

**HCC:**  
G1

**NRC/State LIC No:**  
N/R

**Net Prop WT For Ammo:**

**Boiling Point:**

**B.P. Text:**  
-313F,-192C

**Melt/Freeze Pt:**

**M.P/F.P Text:**  
-341F,-207C

**Decomp Temp:**

**Decomp Text:**  
UNKNOWN

**Vapor Pres:**  
N/R

**Vapor Density:**  
0.968

**Volatile Org Content %:**

**Spec Gravity:**  
0.789

**VOC Pounds/Gallon:**

**PH:** N/R

**VOC Grams/Liter:**

**Viscosity:**  
N/K

**Evaporation Rate & Reference:**  
NOT APPLICABLE

**Solubility in Water:**  
INSOLUBLE

**Appearance and Odor:**  
GAS;COLORLESS;ODORLESS.

**Percent Volatiles by Volume:**  
100

**Corrosion Rate:**  
N/R

## Reactivity Data

**Stability Indicator:**  
YES

**Stability Condition To Avoid:**  
HIGH HEAT,SOURCES OF IGNITION.

**Materials To Avoid:**  
NONCORROSIVE OXIDIZING MATERIALS, BRF\*3, CS\*20, IF\*7, NF\*3, O\*2, OF\*2, AG\*20.

**Hazardous Decomposition Products:**  
MANUFACTURER STATES NONE.

**Hazardous Polymerization Indicator:**  
NO

**Conditions To Avoid Polymerization:**  
N/R 5

## Toxicological Information

**Information:**N/P

## MSDS Transport Information

**Information:**N/P

## Regulatory Information

**Sara Title III Information:** N/P

**Federal Regulatory Information:** N/P

**State Regulatory Information:** N/P

## Other Information

**Other Information:**N/P

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