

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

ACGIH STEL:

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

LD50/LC50 Mixture:

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:

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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:**Net Prop WT For Ammo:**

N/K

Boiling Point:**B.P. -192C:**

-313F -192C

Melt/Freeze Pt:**Melt/Freeze Pt:**

N/K

M.P/F.P.:**M.P/F.P.:**

-341F -207C

Decomp Temp:**Decomp Temp:**

UNKNOW

Decomp Text:

UNKNOW

Vapor Pres:

N/R

Vapor Density:

0.968

Volatile Org Content %:**Volatile Org Content %:**

0.789

VOC Pounds/Gallon:**VOC Pounds/Gallon:**

N/R

PH:

N/R

VOC Grams/Liter:**VOC Grams/Liter:**

N/R

Viscosity:

N/K

Evaporation Rate & Reference:**Evaporation Rate & Reference:**

NOT APPLICABLE

Solubility in Water:**Solubility in Water:**

INSOLUBLE

Gas/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:

MANUFACTURE STATES NONE.

Hazardous Polymerization Indicator:

NO

Conditions To Avoid Polymerization:

N/R

Toxicological Information

Information:

N/P

Information:

N/P

Information:

N/P

MSDS Transport Information

Information:

N/P

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