



CARBON MONOXIDE

(500 ppm or Less in Air)

MATERIAL SAFETY DATA SHEET

Dynamation, Inc.
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Emergency Telephone Number
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Effective Date: November 1985

Product Information - Carbon Monoxide

Synonyms:	None	
Gas Number:	630-08-0	Molecular Weight:
Chemical Formula:	CO	Hazardous Gas Ingredient
Chemical Family:	Non Metal Oxide	

Precautionary Information - 500 ppm or Less of CO in Air

Warning: Harmful if inhaled
Keep away from heat and flame
Keep container closed
Use with adequate ventilation
Avoid breathing gas

Emergency First Aid - 500 ppm or Less of CO in Air

If inhaled, move affected person to fresh air immediately. Administer oxygen and call a physician and inform him that patient has inhaled toxic of carbon monoxide.

Physical Data - Carbon Monoxide

Appearance: Gas is colorless
Odor: Odorless
Solubility at 68°F: Bunsen Coefficient = .02266
Boiling Point: -312.75°F
Freezing Point: -337.02°F
Vapor Pressure at 70°F: Above the critical temperature of -220.4°F
Liquid Density at Boiling Point: 49.23 lb/ft³

Explosion Information - 500 ppm or Less of CO in Air

Point: N/A Flammable Limits: LEL - N/A, UEL - N/A
Container from fire area if you can do so without risk. Cool container
to flames with water from the side until well after fire is out.

Stability Data - 500 ppm or Less of CO in Air

Stability: Stable
Decomposition Products: None
Polymerization: Will not occur
Compatibility: Oxidizers

Disposal Information - 500 ppm or Less of CO in Air

Disposal: Evacuate personnel and ventilate area.
Regulations: Ensure compliance with applicable local, state and federal regulations.
Return defective cylinder to supplier.

Hazard Information - 500 ppm or Less of CO in Air

Exposure/Health Effects

Exposure: Depending on level and duration of exposure, symptoms may include
headache and dizziness. Because it is a colorless and odorless
poisonous gas, there is no warning of its presence other than the
above symptoms. Analytical monitors, with alarms, should be
employed where the possibility of the release of toxic quantities
exists.

First Aid

Exposure: Move exposed person to fresh air immediately and treat with
supplemental oxygen. The administering of the oxygen at elevated
pressure (up to 2-2.5 atmospheres) has shown to be beneficial as
has treatment in a hyperbaric chamber. The physician should be
informed that the patient has inhaled toxic quantities of carbon
monoxide.

Personal Control Measures

Permissible Exposure Limit (TLV): 50 ppm (TWA)
Short-Term Exposure Limit (STEL): 400 ppm

Control System: Hood with forced ventilation is recommended. Local exhaust
ventilation is preferred to prevent accumulation above the TWA.

Respiratory Protection: If the TLV is exceeded positive pressure (NIOSH approved)
air line with mask or self contained breathing apparatus should be
worn. Note: with airline the TLV of CO in the respiratory air is 20
ppm and self contained is 10 ppm.

Protective Gloves: Plastic or rubber

Eye Protection: Safety goggles or glasses
Other Protective Equipment: Safety shoes, safety shower

Storage Information

Protect against physical damage in less than 130°F temperature

Special Precautions - 500 ppm or Less CO in Air

DOT Shipping Name: Compressed Gas N05 DOT Hazard Class: Non Flammable Gas
DOT Shipping Label: Non Flammable ID Number: UN 1956

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