

# MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-75/75-21-8.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**

75-21-8

**Code:**

M

**RTECS:**

KX2450000

**Code:**

M

**Name:**

ETHYLENE OXIDE (SARA III)

**Other REC Limits:**

N/P

**OSHA PEL:**

1 PPM; SEE 1910.1047

**Code:**

M

**OSHA STEL:****Code:****ACGIH TLV:**

1 PPM, A2; 9192

**Code:**

M

**ACGIH STEL:**

N/P

**Code:**

## Control Measures

**Respiratory Protection:**

IF EXPOSURE TLV, NIOSH/MESA APPR SELF-CNTND BRTHG APP (POS PR MODE)

**Ventilation:**

PROVIDE MECHAN(GEN/LOCAL EXHAUST)VENT TO MAINTN

**Protective Gloves:**

RUBBER/NEOPRENE

**Eye Protection:**

4 GOGGLES/FACE SHIELD

**Other Protective Equipment:**

Equipment FULL PROTECTIVE CLOTHING, SAFETY SHOWER, EYE WASH STATION

**Work Hygienic Practices:**

N/P

**Supplemental Safety and Health:**

EFFECTS OF OVER EXP: NAUSEA, VOMITING, IRRITAT. OF NOSE, THROAT & LUNGS CUMULATIVE LUNG, LIVER & KIDNEY DAMAGE. MUTAGEN/SUSPECT CARCINOGEN. DIZZINESS WEAKNESS, NAUSEA, VOMITING, CHEST PAIN & NEUROTOXIC.

## Health Hazards Data

**LD50/LC50 Mixture:**

N/P

**Route Of Entry Inds - Inhalation:**

N/P

**Skin:**

N/P

**Ingestion:**

N/P

**Carcinogenicity Inds - NTP:**

N/P

**IARC:**

N/P

**OSHA:**

N/P

**Health Hazards Acute And Chronic:**

N/P

**Explanation Of Carcinogenicity:**

N/P

**Signs And Symptoms Of Overexposure:**

EYES: IRRITAT, SEVERE EYE DAMAGE. SKIN: SEVERE DERMATITIS WITH BLISTERS & BURNS, FROSTBITE. INHAL: SUPP DA

**Medical Cond Aggravated By Exposure:**

N/P

**First Aid:**

EYES: FLUSH THE EYES WITH WATER FOR 15 MIN & CONTACT A PHYSICIAN IMMEDIATELY. SKIN: WASH WITH SOAP AND WATER OR FLUSH THE AFFECTED AREAS WITH WATER CALL A DOCTOR. INHAL: REMOVE TO FRESH AIR, CONTACT A PHYSICIAN AS SOON AS POSSIBLE.

**Spill Release Procedures:**

EXTINGUISH ALL IGNITION SOURCES. EVACUATE AREA IMMEDIATELY. VENTILATE AREAS, USE NIOSH APPROVED RESPIRATOR FOR E.O. IN ORDER TO CHECK THE CONCENTRATIONS. ENTER THE AREA ONLY WHEN IT IS AT SAFE LIMITS.

**Neutralizing Agent:**

N/P

**Waste Disposal Methods:**

USED CARTRIDGES: AERATE AN EMPTY CARTRIDGE AFTER A STERILIZATION CYCLE. DISPOSE OF IAW LOCAL, STATE, AND FEDERAL REGULATIONS. FOR UNUSED CARTRIDGES CONTACT A LOCAL LICENSED HAZARDOUS WASTE COMPANY EXPERT IN CLASS I FLAMMABLE LIQUIDS.

**Handling And Storage Precautions:**

3 KEEP ALL SOURCES OF IGNITION AWAY. STORE IN APPROVED AREA FOR CLASS I FLAMMABLE LIQUIDS PER NFPA. REQUIRES A WRITTEN EMERGENCY PLAN.

**Other Precautions:**

CHECK FOR LEAKING CYLINDERS. DO NOT SMOKE IN WORK AREA. AVOID INHALATION OF VAPORS & SKIN CONTACT.

## Fire and Explosion Hazard Information

**Flash Point Method:**

N/P

**Flash Point:**

N/P

**Flash Point Text:**

< 0.0F

**Autoignition Temp:**

N/A

**Autoignition Temp Text:**

N/A

**Lower Limits:**

3.0

**Upper Limits:**

100

**Extinguishing Media:**

CO<sub>2</sub> FOR SM. FIRES. POLYMER OR ALCOHOL FORMS FOR LAR. FIRES

**Fire Fighting Procedures:**

DIL OF E.O. WITH 23 VOL. OF WATER RENDERS IT NON-FLAMMABLE

**Unusual Fire/Explosion Hazard:**

VAPORS OF E.O. WILL BURN WITHOUT PRESENCE OF AIR OR OTHER OXIDIZERS.

## Physical/Chemical Properties

**HCC:**

G8

**NRC/State LIC No:****Net Prop WT For Ammo:****Boiling Point:**

51.8F/11C

**Melt/Freeze Pt:****N/P F.P Text:****Decomp Temp:**

N/A

**Decomp Text:****Vapor Pres:**

1.5

**Vapor Density:**

1.5

**Volatile Org Content %:**

N/P

**Spec Gravity:**

0.9

**VOC Pounds/Gallon:**

N/A

**PH:**

N/P

**N/Viscosity:**

N/P

**Evaporation Rate & Reference:**

N/D

**Solubility in Water:**

SOLUBLE IN WATER

**Appearance and Odor:**

COLORLESS GAS WITH A SWEETISH ODOR

**Percent Volatiles by Volume:**

100

**Corrosion Rate:**

N/P

## Reactivity Data

**Stability Indicator:**

YES

**Stability Condition To Avoid:**

None Specified by the Mfr.

**Materials To Avoid:**

ALKALIES ACIDS WILL DECOMPOSE VIOLENTLY AT TEM. ABOVE 800F

**Hazardous Decomposition Products:**

CO, CO<sub>2</sub>

**Hazardous Polymerization Indicator:**

NO

**Conditions To Avoid Polymerization:**

None Specified by the Mfr.

## 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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