

# MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-74/74-85-1.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**  
74-85-1  
**Code:**  
M

**RTECS:**  
KU5340000  
**Code:**  
M

**Name:**  
ETHYLENE (SARA III)

**Other REC Limits:**  
NONE RECOMMENDED

**OSHA PEL:**  
NOT ESTABLISHED  
**Code:**  
M

**OSHA STEL:**

**Code:**

**ACGIH TLV:**  
ASPHYXIAN; 9394  
**Code:**  
M N/P

**ACGIHSTEL:**  
EPA Rpt Qty: DOT Rpt Qty: Ozone Depleting Chem  
**Code:**  
1 ACGIH STEL:

## Control Measures

**Respiratory Protection:**  
USE A SELF-CONTAINED BREATHING APPARATUS IN CASE OF EMERGENCY OR NON-ROUTINE USE.

**Ventilation:**  
PROVIDE ADEQUATE GENERAL AND LOCAL EXHAUST VENTILATION. EXPLOSION PROOF.

**Protective Gloves:**  
INSULATED GLOVES TO PREVENT CONTACT.

**Eye Protection:**  
SAFETY GLASSES.

**Other Protective Equipment:**  
Equipment SAFETY SHOES RECOMMENDED FOR HANDLING CYLINDERS.

**Work Hygienic Practices:**  
NONE SPECIFIED BY MANUFACTURER.

**Supplemental Safety and Health:**  
NONE

## Health Hazards Data

**LD50LC50Mixture:**  
ORAL LD50 (RAT) IS UNKNOWN

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

**Skin:**  
YES

**Ingestion:**  
NO

**Carcinogenicity Inds - NTP:**  
NO

**IARC:**  
NO

**OSHA:**  
NO

**Health Hazards Acute And Chronic:**  
ACUTE: ASPHYXIAN. INHALATION OF HIGH CONCENTRATIONS MAY RESULT IN MODERATE ANESTHESIA, DIMINISHED MENTAL ALERTNESS, LOSS OF CONSCIOUSNESS AND CENTRAL NERVOUS SYSTEM DEPRESSION. CHRONIC: NONE KNOWN.

**Explanation Of Carcinogenicity:**  
NOT CARCINOGENIC.

**Signs And Symptions Of Overexposure:**  
LIQUID CONTACT CAN CAUSE FREEZE BURNS.

**Medical Cond Aggravated By Exposure:**  
NONE KNOWN.

**First Aid:**  
INHALATION-IMMEDIATELY REMOVE VICTIM TO FRESH AIR. IF BREATHING HAS SPED, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. SKIN CONTACT-FLUSH EFFECTED AREA WITH TEPID WATER.

**Spill Release Procedures:**  
EVACUATE AND VENTILATE AREA. REMOVE SOURCES OF HEAT OR IGNITION. REMOVE LEAKING CONTAINERS TO OUTDOORS OR INTO A HOOD. CAN BE DISSOLVED IN COLD ORGANIC SOLVENT AND SUBSEQUENTLY RECOVERED BY WARMING IT .

**Neutralizing Agent:**  
N/R

**Waste Disposal Methods:**  
ALLOW GAS TO DISCHARGE AT A MODERATE RATE. RETURN DEFECTIVE CYLINDERS TO SUPPLIER. IT CAN BE ABSORBED IN 95% SULFURIC ACID/RESULTING MIXTURE CAN BE TAKEN TO PLANT DISPOSAL UNIT FOR NEUTRALIZATION AND DISPOSAL.

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

**Other Precautions:**  
USE SUITABLE HAND TRUCK TO MOVE CYLINDERS. PROTECT CONTAINERS FROM PHYSICAL DAMAGE. DO NOT DEFACE CYLINDERS. MOVE CYLINDER WITH ADEQUATE HAND TRUCK. CYLINDERS SHOULD BE REFILLED BY QUALIFIED PRODUCERS OF COMPRESSED GAS.

## Fire and Explosion Hazard Information

**Flash Point Method:**  
CC

**Flash Point:**

**Flash Point Text:**  
-351F,-213C

**Autoignition Temp:**

**Autoignition Temp Text:**  
N/K

**Lower Limits:**  
2.7

**Upper Limits:**  
36

**Extinguishing Media:**  
CARBON DIOXIDE, DRY CHEMICAL, WATER SPRAY. USE WATER SPRAY TO COOL FIRE EXPOSED CYLINDERS.

**Fire Fighting Procedures:**  
WEAR SELF-CONTAINED BREATHING APPARATUS & FULL PROTECTIVE CLOTHING. S FLOW OF GAS. DO NOT FULLY EXTINGUISH BURNING GAS UNTIL FLOW HAS SPED.

**Unusual Fire/Explosion Hazard:**  
MODERATE WHEN EXPOSED TO FALME AND HEAT.

## Physical/Chemical Properties

**HCC:**  
G2

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

**Net Prop WT For Ammo:**

**Boiling Point:**

**B.P. Text:**  
-155F,-104C

**Melt/Freeze Pt:**

**M.P/F.P Text:**  
N/R

**Decomp Temp:**

**Decomp Text:**  
N/R 3

**Vapor Pres:**  
35.04

**Vapor Density:**  
0.98

**Volatile Org Content %:**

**Spec Gravity:**  
0.568

**VOC Pounds/Gallon:**

**PH:** N/R

**VOC Grams/Liter:**

**Viscosity:**  
N/R

**Evaporation Rate & Reference:**  
N/R

**Solubility in Water:**  
0.226

**Appearance and Odor:**  
COLORLESS, SWEET ODOR.

**Percent Volatiles by Volume:**  
N/R

**Corrosion Rate:**  
N/R

## Reactivity Data

**Stability Indicator:**  
YES

**Stability Condition To Avoid:**  
NONE SPECIFIED BY MANUFACTURER.

**Materials To Avoid:**  
STRONG OXIDIZERS. REACTS VIGOROUSLY WITH ALCL3, O3, CCL4, BENZOYL PEROXIDE, BROMOTRICHLOROMETHANE &NITROMETHANE + ALCL3

**Hazardous Decomposition Products:**  
CARBON MONOXIDE, CARBON DIOXIDE.

**Hazardous Polymerization Indicator:**  
NO

**Conditions To Avoid Polymerization:**  
N/K

## 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