

MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-106/106-88-7.html> for suppliers of this product.

Composition/Information on Ingredient

Cas:
106-88-7
Code:
M

RTECS:
EK3675000
Code:
M

Name:
1,2-BUTYLENE OXIDE (SARA III)

Other REC Limits:
NONE SPECIFIED

OSHA PEL:
NOT ESTABLISHED
Code:
M

OSHA STEL:

Code:

ACGIH TLV:
NOT ESTABLISHED
Code:
M

ACGIHSTEL:
N/P
Code:

Control Measures

Respiratory Protection:
USE NIOSH APPROVED ORGANIC VAPOR RESPIRATOR IF ABOVE PEL/TVL OR USE SCBA IN AN ENCLOSED AREA.

Ventilation:
LOCAL EXHAUST/GENERAL TO MAINTAIN PEL/TLV.

Protective Gloves:
NEOPRENE/VITON

Eye Protection:
CHEM.SAFETY GOGGLES

Other Protective Equipment:
Equipment SAFETY SHOWER EYEWASH STATION SHOULD BE AVAILABLE.

Work Hygienic Practices:
AVOID CONTACT WITH SKIN AND EYES;DO NOT BREATHE VAPORS/MIST;DO NOT EAT ,SMOKE OR DRINK IN WORK AREA.

Supplemental Safety and Health:
5 N/P

Health Hazards Data

LD50LC50Mixture:
UNKNOWN

Route Of Entry Inds - Inhalation:
YES

Skin:
YES

Ingestion:
NO

Carcinogenicity Inds - NTP:
YES

IARC:
YES

OSHA:
NO

Health Hazards Acute And Chronic:
ACUTE-EYE:IRRITATION WITH POSSIBLE CORNEAL INJURY. SKIN:IRRITATION,DEFATTING. INHALATION:DIZZINESS,DROWSINESS,THROAT IRRITATION(ABOVE 1,000PPM); UNCONSCIOUSNESS,CNS DEPRESSION,CARDIAC SENSITIZATION(AB OVE 10,000PPM). CHRONIC:DERMATITIS, LIVER AND HEART DISORDERS.

Explanation Of Carcinogenicity:
1,4 DIETHYLENE DIOXIDE IS LISTED BY NTP AND IARC AS A POSSIBLE CARCINOGEN. 3

Signs And Symptions Of Overexposure:
EYE:IRRITATION, REDNESS AND PAIN. INHALATION:DIZZINESS, DROWSINESS, NAUSEA, VOMITING, UNCONSCIOUSNESS & EVEN DEATH IN EXTREME CASES.

Medical Cond Aggravated By Exposure:
PRE-EXISTING CONDITIONS EFFECTING LIVER AND HEART.

First Aid:
INHALATION:REMOVE TO FRESH AIR, PROVIDE CPR/OXYGEN IF NEEDED. EYE CONTACT:FLUSH WITH WATER FOR 15 MINUTES. SKIN CONTACT:WASH WITH SOAP AND WATER. GET MED ATTENTION IF SYMPTOMS PERSIST. INGESTION:DO NO T INDUCE VOMITING, GET MEDICAL HELP IMMEDIATELY.

Spill Release Procedures:
EVACUATE THE AREA,VENTILATE & AVOID BREATHG VAP.USE APPROPRIATE PROTECTIVE GEARS. DIKE AREA TO CONTAIN SPILL. VACUUM UP OR ABSORB WITH INERT MATL & PLACE IN CLOSED CONTAINERS FOR DISPOSAL. AVOID CONTA MINATING GROUND WATER. DO NOT FLUSH TO SEWER.

Neutralizing Agent:
N/P

Waste Disposal Methods:
RECOVERED LIQUIDS MAY BE SENT TO LICENSED RECLAIMER OR INCINERATION FACILITY. CONTAMINATED MATERIAL MUST BE DISPOSED OF IN A PERMITTED WASTE MANAGEMENT FACILITY. CONSULT FEDERAL,STATE OR LOCAL DISPOSAL AUTHORITIES FOR APPROVED PROCEDURES.

Handling And Storage Precautions:
STORE IN COOL,DRY,WELL VENTILATED,LOW FIRE RISK AREA. PROTECT FROM PHYSICAL DAMAGE.KEEP CONTAINERS CLOSED. MAINTAIN STRICT HYGIENE FOR CHEM HANDLING.

Other Precautions:
AVOID CONTACT W/SKIN & AVOID BREATHG VAP.DO NOT WORK AROUND SPILLED AREA.DO NOT EAT/DRINK IN WORK AREA;NOTE TO DR;ADRENALIN SHOULD NEVER BE GIVEN TO PERSONS OVEREXPOSED TO 1,1,1-TRICHLOROETHANE.

Fire and Explosion Hazard Information

Flash Point Method:
TCC

Flash Point:

Flash Point Text:
NONE 4

Autoignition Temp:

Autoignition Temp Text:
N/A

Lower Limits:
7.5

Upper Limits:
15.0

Extinguishing Media:
WATER,FOAM,DRY CHEMICAL,CARBON DIOXIDE (CO*2)

Fire Fighting Procedures:
FIRE FIGHTERS SHOULD WEAR PROTECTIVE CLOTHING AND SELF-CONTAINED BREATHING APPARATUS.

Unusual Fire/Explosion Hazard:
VAPORS CAN BE IGNITED BY HIGH INTENSITY IGNITION SOURCES. DECOMPOSES IN FIRE OR ON CONTACT WITH HOT SURFACES TO TOXIC GASES.

Physical/Chemical Properties

HCC:
T4

NRC/State LIC No:
N/R

Net Prop WT For Ammo:

Boiling Point:

B.P. Text:
165F/74C

Melt/Freeze Pt:

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

Decomp Temp:

Decomp Text:
UNKNOWN

Vapor Pres:
100 MMHG

Vapor Density:
4.6

Volatile Org Content %:

Spec Gravity:
1.32

VOC Pounds/Gallon:

PH: N/R

VOC Grams/Liter:

Viscosity:
N/P

Evaporation Rate & Reference:
0.4 (ETHER =1)

Solubility in Water:
NEGILIGIBLE

Appearance and Odor:
CLEAR, COLORLESS LIQUID, MILDLY SWEET ODOR.

Percent Volatiles by Volume:
100

Corrosion Rate:
N/P

Reactivity Data

Stability Indicator:
YES

Stability Condition To Avoid:
CONTACT WITH OPEN FLAME,HOT SURFACES.

Materials To Avoid:
STRONG ALKALIES,OXIDIZERS REACTIVE MATERIALS.

Hazardous Decomposition Products:
HYDROGEN CHLORIDE, PHOSGENE.

Hazardous Polymerization Indicator:
NO

Conditions To Avoid Polymerization:
NOT KNOWN 6

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