

# MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-97/97-64-3.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**  
97-64-3  
**Code:**  
M  
**RTECS:**  
OD5075000  
**Code:**  
T  
**Name:**  
ETHYL HYDROXYPROPIONATE % low Wt: .1 Code: M  
**Other REC Limits:**  
N/P

**OSHA PEL:**  
N/P  
**Code:**

**OSHA STEL:**  
N/P  
**Code:**

**ACGIH TLV:**  
N/P  
**Code:**

**ACGIHSTEL:**  
N/P  
**Code:**

## Control Measures

**Respiratory Protection:**  
AS IN ANY FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS (PRESSURE DEMAND, MSHA/ NIOSH APPROVED).

**Ventilation:**  
GOOD GENERAL VENTILATION SHOULD BE SUFFICIENT TO CONTROL AIRBORNE LEVELS.

**Protective Gloves:**  
WEAR RUBBER OR OTHER CHEMICALLY RESISTANT GLOVES WHEN HANDLING THIS MATERIAL.

**Eye Protection:**  
WEAR SAFETY GLASSES WITH SIDE SHIELDS (OR GOGGLES).

**Other Protective Equipment:**  
Equipment N/P 7

**Work Hygienic Practices:**  
WASH HANDS BEFORE EATING.

**Supplemental Safety and Health:**  
LOCAL EXHAUST VENTILATION MAY BE NECESSARY TO CONTROL ANY AIR CONTAMINANTS TO WITHIN THEIR TLVS DURING THE USE OF THIS PRODUCT.

## Health Hazards Data

**LD50LC50Mixture:**  
DCFETHANE, ORAL,RAT LD50 >5,000 MG/KG.

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

**Skin:**  
YES

**Ingestion:**  
YES

**Carcinogenicity Inds - NTP:**  
NO

**IARC:**  
NO

**OSHA:**  
N/P

**Health Hazards Acute And Chronic:**  
EYES: LIQUID, AEROSOLS, AND VAPORS OF THIS PRODUCT ARE IRRITATING AND CAN CAUSE PAIN, TEARING, REDDENING AND SWELLING ACCOMPANIED BY A STINGING SENSATION. SKIN: CONTACT CAUSES SKIN IRRITATION. INGESTI ON: HARMFUL IF SWALLOWED. IRRITATING TOMOUTH, THROAT, AND STOMACH. MAY CAUSE VOMITING. INHALATION: HARMFUL IF INHALED, HIGH CONCENTRATIONS OF VAPORS IN IMMEDIATE AREA CAN DISPLACE OXYGEN AND CAN CAUSE DIZZINESS, UNCONSCIOUSNESS, AND EVEN DEATH WITH LONGER EXPOSURE. KEEP PEOPLE AWAY FROM SUCH

**Explanation Of Carcinogenicity:**  
5 NO INGREDIENTS LISTED AS HUMAN CARCINOGENS BY NTP OR IARC.

**Signs And Symptoms Of Overexposure:**  
EYES: IRRITATION, PAIN, TEARING, REDDENING, AND SWELLING ACCOMPANIED BY A STINGING SENSATION. SKIN: IRRITATION. INGESTION: IRRITATION OF MOUTH, THROAT, AND STOMACH, VOMITING. INHALATION: DIZZINESS, UNCONSCIOUSNESS, AND EVEN DEATH WITH LONGER EXPOSURE.

**Medical Cond Aggravated By Exposure:**  
PRE-EXISTING HEART , LUNG, SKIN, EYE MEDICAL CONDITIONS..

**First Aid:**  
EYES: IMMEDIATELY FLUSH WITH WATER. REMOVE CONTACT LENSES. CONTINUE FLUSHING FOR AT LEAST 15 MINUTES. HAVE EYES EXAMINED AND TESTED BY MEDICAL PERSONNEL IF IRRITATION DEVELOPS OR PERSISTS. SKIN: WASH WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND WASH SEPARATELY BEFORE REUSE. INGESTION: DO NOT INDUCE VOMITING. KEEP HEAD BELOW KNEES TO MINIMIZE CHANCE OF ASPIRATING MATERIAL INTO LUNGS. NEV ER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET MEDICAL ATTENTION. INHALATION: MOVE TO

**Spill Release Procedures:**  
LARGE SPILLS: SHUT OFF LEAK. WEAR A SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE EQUIPMENT. ABSORB SPILL WITH INERT MATERIAL (E.G., DRY SAND OR EARTH). THEN PLACE IN CHEMICAL WASTE CONTAINER FOR DISPOSAL. DO NOT FLUSH TO SEWER. AVOID RUNOFF INTO STORM SEWERS AND DITCHES WHICH LEAD TO WATERWAYS. SMALL SPILLS: ABSORB SPILL WITH INERT MATERIAL.THEN PLACE IN CHEMICAL WASTE CONTAINER FOR DISPOSAL.

**Neutralizing Agent:**  
N/P

**Waste Disposal Methods:**  
DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS. WATER RUNOFF CAN CAUSE ENVIRONMENTAL DAMAGE.

**Handling And Storage Precautions:**  
AVOID PROLONGED OR REPEATED CONTACT WITH EYES, SKIN, CLOTHING. USE WITH ADEQUATE VENTILATION. AVOID BREATHING PRODUCT VAPOR OR MIST. DO NOT REUSE THIS CONTAINER. STORE IN A COOL DRY PLACE AWAY FROM HE AT, SPARKS, FLAMES. KEEP CONTAINER CLOSED WHEN NOT IN USE. DO NOT STORE IN DIRECT SUNLIGHT.

**Other Precautions:**  
WASH HANDS BEFORE EATING. KEEP OUT OF REACH OF CHILDREN. 6

## Fire and Explosion Hazard Information

**Flash Point Method:**  
TCC

**Flash Point:**

**Flash Point Text:**  
NONE

**Autoignition Temp:**

**Autoignition Temp Text:**  
N/P

**Lower Limits:**  
7.4

**Upper Limits:**  
15.5

**Extinguishing Media:**  
USE ALCOHOL FOAM, CARBON DIOXIDE, OR WATER SPRAY WHEN FIGHTING FIRES INVOLVING THIS MATERIAL.

**Fire Fighting Procedures:**  
AS IN ANY FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS (PRESSURE-DEMAND, MSHA/NIOSH APPROVED OR EQUIVALENT) AND FULL PROTECTIVE GEAR.

**Unusual Fire/Explosion Hazard:**  
N/P

## Physical/Chemical Properties

**HCC:**  
V2

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

**Net Prop WT For Ammo:**

**Boiling Point:**  
=32.2C, 90.F

**B.P. Text:**  
DICHLOROFLUOROETHANE

**Melt/Freeze Pt:**

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

**Decomp Temp:**

**Decomp Text:**  
N/P

**Vapor Pres:**  
517 MM HG@70F

**Vapor Density:**  
>1(AIR=1)

**Volatile Org Content %:**

**Spec Gravity:**  
1.23 (H2O= 1)

**VOC Pounds/Gallon:**

**PH:** N/A

**VOC Grams/Liter:**

**Viscosity:**  
1 (APPROX.) (H2O=1)

**Evaporation Rate & Reference:**  
>1 (BUTYL ACETATE=1)

**Solubility in Water:**  
NEGLEGIBLE.

**Appearance and Odor:**  
CLEAR, COLORLESS LIQUID; ETHEREAL ODOR.

**Percent Volatiles by Volume:**  
100%

**Corrosion Rate:**  
N/P

## Reactivity Data

**Stability Indicator:**  
YES

**Stability Condition To Avoid:**  
DO NOT SPRAY NEAR OPEN FLAMES, RED HOT SURFACES OR OTHER SOURCES OF IGNITION. 8

**Materials To Avoid:**  
DO NOT MIX WITH POWDERED ALKALI AND ALKALINE EARTH METALS OR STRONG OXIDIZING AGENTS.

**Hazardous Decomposition Products:**  
THERMAL DECOMPOSITION MAY RELEASE CARBON MONOXIDE, CARBON DIOXIDE, AND INCOMPLETELY BURNED HYDROCARBONS AS WELL AS HYDROCHLORIC AND HYDROFLUORIC ACID VAPOR.

**Hazardous Polymerization Indicator:**  
NO

**Conditions To Avoid Polymerization:**  
WILL NOT OCCUR.

## 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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