

# MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-75/75-37-6.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**  
75-37-6  
**Code:**  
T

**RTECS:**  
K11410000  
**Code:**  
T

**Name:**  
1,1-DIFLUOROETHANE % low Wt: 25. Code: M % high

**Other REC Limits:**  
N/P

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

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

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

**ACGIHSTEL:**  
EPA Rpt Qty: 5000 LBS DOT Rpt Qty: 5000 LBS O  
**Code:**  
1 ACGIH STEL:

## Control Measures

**Respiratory Protection:**  
USE A DUST RESPIRATOR WHEN WORKING WITH THE ATOMIZED PRODUCT. BREATHING APPARATUS RECOMMENDED IF NECESSARY FOR APPLICATION. REFER TO NIOSH PUBLICATION NO. 89-105 AND NIOSH NO. 87-116. SEE OSHA REQUIRE MENT UNDER 29 CFR 1910.1025 AND 29 CFR 1910.134.

**Ventilation:**  
LOCAL OR MECHANICAL TO KEEP INGREDIENTS BELOW THEIR EXPOSURE LIMITS.

**Protective Gloves:**  
IMPERVIOUS GLOVES ARE RECOMMENDED TO PREVENT SKIN CONTACT.

**Eye Protection:**  
SAFETY GLASSES TO PREVENT EYE CONTACT ARE RECOMMENDED.

**Other Protective Equipment:**  
Equipment BOOTS, APRON, PROTECTIVE SUIT.

**Work Hygienic Practices:**  
N/P

**Supplemental Safety and Health:**  
PRODUCT CODE: 002059

## Health Hazards Data

**LD50LC50Mixture:**  
N/P

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

**Skin:**  
N/P

**Ingestion:**  
N/P

**Carcinogenicity Inds - NTP:**  
NO

**IARC:**  
NO

**OSHA:**  
NO

**Health Hazards Acute And Chronic:**  
ACUTE: BREATHING HIGH CONCENTRATIONS OF VAPORS MAY CAUSE TEMPORARY NERVOUS SYSTEM DEPRESSION WITH ANESTHETIC EFFECTS SUCH AS DIZZINESS, HEADACHE, OR NAUSEA. CHRONIC: PROLONGED EXPOSURE TO EXTREMELY HIGH CONCENTRATIONS OF THE VAPORS MAY LEAD TO NARCOSIS, CARDIAC IRREGULARITIES, UNCONSCIOUSNESS OR DEATH.

**Explanation Of Carcinogenicity:**  
N/P

**Signs And Symptoms Of Overexposure:**  
INHALATION-ACUTE: NAUSEA, DIZZINESS,&/OR HEART IRREGULARITIES MAY OCCUR FROM BREATHING HIGH CONCENTRATIONS. CHRONIC: BREATHING EXTREMELY HIGH CONCENTRATIONS OF THE VAPORS MAY LEAD TO ANESTHETIC EFFECT S SUCH AS DIZZINESS, HEADACHE, OR NAUSEA. PROLONGED EXPOSURE TO EXTREMELY HIGH CONCENTRATIONS OF VAPORS MAY LEAD TO NARCOSIS, CARDIAC 2 IRREGULARITIES, UNCONSCIOUSNESS OR DEATH. SKIN-ACUTE: MAY CAUE IRR ITATION OR BURNING SENSATION AS WELL AS FROSTBITE. CHRONIC: MAY CAUSE DERMATITIS. EYE: MA

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

**First Aid:**  
DO NOT USE EPINEPHRINE IN CONJUNCTION WITH THIS MATERIAL. EYES: FLUSH IMMEDIATELY WITH WATER FOR 15 MINUTES AND TAKE TO PHYSICIAN. SKIN: WASH AFFECTED AREA, TREAT FOR FROSTBITE IF NECESSARY, AND CONSU LT A PHYSICIAN IF IRRITATION PERSISTS. INGESTION: CALL A PHYSICIAN AND/OR TRANSPORT TO EMERGENCY FACILITY IMMEDIATELY. DO NOT INDUCE VOMITING SO AS TO AVOID ASPIRATION OF MATERIAL INTO THE LUNGS. INHA LATION: REMOVE FROM EXPOSURE AND RESTORE BREATHING. SEEK MEDICAL ATTENTION.

**Spill Release Procedures:**  
FOR ALL TRANSPORTATION ACCIDENTS CALL CHEMTREC AT 1-800-424-9300. REPORTABLE QUANTITY: N/A. S SOURCE OF SPILL AS SOON AS POSSIBLE & NOTIFY APPROPRIATE PERSONNEL. BURM AROUND SPILL AREA TO PREVENT S PILL FROM SPREADING. VENTILATE AREA. DO NOT FLUSH INTO SEWERS. VAPORS MAY BE SUPPRESSED BY USE OF WATER FOG OR SPRAY. CONTAIN ALL LIQUID FOR TREATMENT OR NEUTRALIZATION. CONTAIN FOR TREATMENT.

**Neutralizing Agent:**  
N/P

**Waste Disposal Methods:**  
SPILLED MATERIAL COLLECTED IN ABSORBENT MATERIAL SHOULD BE TRANSFERRED TO STEEL DISPOSAL OR RECOVERY DRUMS. IF THIS PRODUCT BECOMES A WASTE, IT DOES NOT MEET THE CRITERIA OF A HAZARDOUS WASTE AS DEFIN ED UNDER 40 CFR 261(D). DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE & FEDERAL REGULATIONS.

**Handling And Storage Precautions:**  
DO NOT TAKE INTERNALLY. AVOID CONTACT WITH EYES AND CLOTHING. UPON CONTACT WITH SKIN OR EYES WASH OFF WITH WATER. STORE IN A COOL, DRY, WELL-VENTILATED PLACE. STORE AT TEMPERATURES BELOW 120F. DO NOT STORE OR USE NEAR HEAT, SPARKS, OR FLAMES.

**Other Precautions:**  
AVOID BREATHING VAPORS. VAPORS ARE HEAVIER THAN AIR AND WILL COLLECT IN LOW AREAS AND OTHER CONFINED AREAS. SHELF LIFE LIMITATIONS: 36 MONTHS FROM DATE OF SHIPMENT.

## Fire and Explosion Hazard Information

**Flash Point Method:**  
N/P

**Flash Point:**

**Flash Point Text:**  
NOT DETERMINED

**Autoignition Temp:**

**Autoignition Temp Text:**  
N/P

**Lower Limits:**  
1.1%

**Upper Limits:**  
19.0%

**Extinguishing Media:**  
FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL, WATER FOG.

**Fire Fighting Procedures:**  
USE STANDARD FIREFIGHTING TECHNIQUES TO FIGHT FIRES INVOLVING THIS MATERIAL.

**Unusual Fire/Explosion Hazard:**  
HAZARDOUS COMBUSTION PRODUCTS: HYDROCHLORIC AND HYDROFLUORIC ACIDS, CARBON MONOXIDE AND CARBON DIOXIDE, POSSIBLY CARBONYL HALIDES AT HIGH TEMPERATURES. 3

## Physical/Chemical Properties

**HCC:**  
V3

**NRC/State LIC No:**

**Net Prop WT For Ammo:**

**Boiling Point:**

**B.P. Text:**  
NOT DETERMINED

**Melt/Freeze Pt:**

**M.P/F.P Text:**  
NOT DETERMINED

**Decomp Temp:**

**Decomp Text:**  
NOT DETERMINED

**Vapor Pres:**  
NOT DETERMINED

**Vapor Density:**  
>AIR

**Volatile Org Content %:**

**Spec Gravity:**  
0.8

**VOC Pounds/Gallon:**

**PH:** N/A

**VOC Grams/Liter:**

**Viscosity:**  
N/P

**Evaporation Rate & Reference:**  
FASTER THAN ETHER

**Solubility in Water:**  
NEGLEGIBLE

**Appearance and Odor:**  
BLACK LIQUID; STRONG ODOR

**Percent Volatiles by Volume:**  
85%

**Corrosion Rate:**  
N/P

## Reactivity Data

**Stability Indicator:**  
N/P

**Stability Condition To Avoid:**  
TEMPERATURES ABOVE 120F (49C) 4

**Materials To Avoid:**  
CONCENTRATED NITRIC AND SULFURIC ACIDS, STRONG OXIDIZERS, HALOGENS AND HALOGEN COMPOUNDS.

**Hazardous Decomposition Products:**  
HYDROCHLORIC AND HYDROFLUORIC ACIDS, CARBON MONOXIDE AND CARBON DIOXIDE, POSSIBLY CARBONYL HALIDES AT HIGH TEMPERATURES.

**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