

MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-429/429-60-7.html> for suppliers of this product.

Composition/Information on Ingredient

Cas:
429-60-7

Code:
M

RTECS:

Code:
X

Name:
TRIFLUOROPROPYL TRIMETHOXSILANE

Other REC Limits:
N/K

OSHA PEL:
N/K (FP N)

Code:
M

OSHA STEL:

Code:
2

ACGIH TLV:
N/K (FP N)

Code:
M

ACGIHSTEL:
N/P

Code:

Control Measures

Respiratory Protection:
7 USE NIOSH APPRVD RESPIRATORY PROT UNLESS ADEQ LOCAL EXHAUST VENT IS PROVIDED/AIR SAMPLING DATA SHOW EXPOSURES ARE W/IN RECOMD EXPOSURE GUIDELINES. INDUSTRIAL HYGIENE PERSONNEL CAN ASSIST IN JUDGING AD EQUACY OF EXISTING ENGINEERING CONTROLS. SUITABLE RESP: NIOSH APPROVED SELF CONTAINED BREATHING APPARATUS (SCBA) OR OTHER SUPPLIED AIR RESP.

Ventilation:
LOCAL EXHAUST RECOMMENDED. GENERAL VENTILATION RECOMMENDED.

Protective Gloves:
TEFLON, BUTYL RUBBER, SILVER SHIELD, 4H.

Eye Protection:
ANSI APPRVD CHEM WORKERS GOGGLES (FP N).

Other Protective Equipment:
Equipment ANSI APPROVED EYE WASH DELUGE SHOWER (FP N).

Work Hygienic Practices:
WASH AT MEALTIME END OF SHIFT. REMOVE CONTAMD CLTHG SHOES AS SOON AS PRACTICAL THOROUGHLY CLEAN BEFORE REUSE.

Supplemental Safety and Health:
EFTS OF OVEREXP: TERATOGENIC EFTS. ABOVE LISTED POTNTL EFTS OF OVEREXP ARE BASED ON ACTUAL DATA, RSLTS OF STUDIES PERFORMED UPON SIMILAR COMPOSITIONS COMPONENT DATA &/OR EXPERT REVIEW OF PRODUCT. SPIL L PROC: MOPPINGS OR SWABBINGS W/APPROP SOLVENTS; WASHING W/MILD CAUSTIC DETERGENTS OR SOLNS OR HIGH PRESSURE(OTHER INFO)

Health Hazards Data

LD50LC50Mixture:
NONE SPECIFIED BY MANUFACTURER.

Route Of Entry Inds - Inhalation:
YES

Skin:
YES

Ingestion:
YES

Carcinogenicity Inds - NTP:
NO

IARC:
NO

OSHA:
NO

Health Hazards Acute And Chronic:
ACUTE: EYE: DIRECT CNTCT IRRITATES MODERATLY W/REDNESS & SWELL. SKIN: RPTD/PRLNGD CONTACT MAY CAUSE DEFAT LEADING TO DERM. INHAL: PROD GENERATES METHYL ALCOHOL WHICH MAY CAUSE BLINDNESS & DMG TO NERVO US SYS. SHORT VAP EXPOS MAY CAUSE DROW,IRRITATE NOSE & THROAT & CAUSE INJURY TO FOLLOWING ORGANS: BLOOD, LUNGS, LIVER, KIDNEYS, NERVOUS SYSTEM, REPRO ORGANS. INGEST:INHALING LIQ WHILE VOMIT CAN INJURE LUNGS SERIOUSLY. PROD GENERATES METHYL ALCOHOL WHICH MAY CAUSE BLINDNESS & POSS DEATH IF SW

Explanation Of Carcinogenicity:
NOT RELEVANT

Signs And Symptions Of Overexposure:
HLTH HAZ: DROW, IRRITATE NOSE & THROAT & CAUSE INJURY TO FOLLOWING ORGANS: BLOOD, LUNGS, LIVER, KIDNEYS, NERVOUS SYS, REPRO ORGANS. INGEST: PROD GENERATES METHYL ALCOHOL WHICH MAY CAUSE BLINDNESS & PO SS DEATH IF SWALLOWED. PROD MAY EVOLVE VAPS OF 2-METHOXY ETHANOL. LAB STUDIES HAVE SHOWN HIGH LEVELS OF EXPOS TO 2-METHOXY ETHANOL HAVE RESULTED IN BIRTH DEFECTS TO LAB ANIMALS. EXPOS OF PREGNANT RATS TO VINYLTRIMETHOXSILANE VAP DURING PERIOD OF MAJOR ORGANOGENESIS PRODUCED MINIMAL MATERNA

Medical Cond Aggravated By Exposure:
NONE SPECIFIED BY MANUFACTURER.

First Aid:
EYE: IMMED FLUSH W/H*2O FOR AT LST 15 MIN. GET MED ATTN. SKIN: REMOVE & WASH THOROUGHLY W/SOAP & H*2O/WATERLESS CLEANSER. GET MED ATTN IF IRRIT/ILL EFTS DEVELOP/PERSIST. INHAL: REMOVE TO FRESH AIR. GE T MED ATTN IF ILL EFTS PERSIST. INGEST:GET IMMED MED ATTN. ONLY INDUCE VOMIT AT INSTRUCTIONS OF MD. NEVER GIVE ANYTHING BY MOUTH IF UNCON. COMMENTS: TREAT ACCRD TO PERSON'S CNDTN & SPECIFICS OF EXPOS.

Spill Release Procedures:
DETERMINE WHETHER TO EVACUATE/ISOLATE AREA DEPENDING ON SUCH SPECIFIC FACTORS AS SITE LOCATION, POPULATION DENSITY, TRAFFIC FLOW, SIZE OF RELS/SPILL, WEATHER CNDTNS, MATL'S HAZS & RISKS TO PEOPLE & W HETHER FIRE IS UNDERWAY OR POSSIBLE. MOP UP OR WIPE UP OR SOAK UP W/ABSORB & CONTAIN FOR SALVAGE OR DISPOSAL. CLEAN ANY REMAINING SLIPPERY SURFACES BY APPROP TECHNIQUES, SUCH AS: SEVERAL (SUPDAT)

Neutralizing Agent:
6 NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Methods:
DISPOSAL OF COLLECTED PROD, RESIDUES & CLEANUP MATLS MAY BE GOVERNMENTALLY REGULATED. OBSERVE ALL APPLIC LOCAL, STATE & FEDERAL WASTE MANAGEMENT REGS. IGNITABLE: D001. STATE OR LOCAL LAWS MAY IMPOSE A DDNL REGULATORY REQ'S REGARDING DISPOSAL.

Handling And Storage Precautions:
TO PVNT POSS SPONT COMBUST, STORE RAGS, MOPS, ABSORB, ETC USED DURING CLEANUP ONLY IN APPROP CNTNRS/COVERED W/WATER. NO SPECIAL HNDLG PRECS. KEEP CNTNR CLSD & AWAY FROM HEAT, SPKS & OPEN FLAMES. KEEP CNTNR CLSD & STORE AWAY FROM WATER/MOISTURE.

Other Precautions:
AVOID EYE CNTCT. AVOID SKIN CNTCT. AVOID BREATHING VAPOR. KEEP CONTAINER CLOSED. DO NOT TAKE INTERNALLY. PRECAUTIONS ARE FOR ROOM TEMPERATURE HANDLING. USE AT ELEVATED TEMPERATURE OR AEROSOL/SPRAY APP LICATIONS MAY REQ ADDED PRECAUTIONS.

Fire and Explosion Hazard Information

Flash Point Method:
CC

Flash Point:

Flash Point Text:
45.0F,7.2C

Autoignition Temp:

Autoignition Temp Text:
N/A

Lower Limits:
N/K

Upper Limits:
N/K

Extinguishing Media:
WATER FOG (OR SPRAY). CARBON DIOXIDE (CO*2), DRY CHEMICAL, FOAM.

Fire Fighting Procedures:
USE NIOSH APPRVD SCBA &FULL PROT EQUIP (FP N). EVACUATE AREA IN CASE OF OVERHEATING OR FIRE. HEAT EXPOSURE PRESSURIZES CLOSED CONTAINERS. COOL W/WATER SPRAY.

Unusual Fire/Explosion Hazard:
VAPS ARE HVR/AIR & CAN TRAVEL ALONG GROUND TO REMOTE IGNIT SOURCES. STATIC ELECTRICITY MAY ACCUM & IGNITE VAPS. PREVENT POSS FIRE HAZ BY SUITABLE MEANS, SUCH AS, BONDING & GROUNDING, INERT GAS PURGE, VAP DILUTION & THE LIKE.

Physical/Chemical Properties

HCC:

NRC/State LIC No:

Net Prop WT For Ammo:

Boiling Point:

B.P. Text:
N/K

Melt/Freeze Pt:

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

Decomp Temp:

Decomp Text:
N/K 8

Vapor Pres:
N/K

Vapor Density:
N/K

Volatile Org Content %:

Spec Gravity:
0.80

VOC Pounds/Gallon:

PH: N/A

VOC Grams/Liter:

Viscosity:
N/P

Evaporation Rate & Reference:
N/K

Solubility in Water:
NONE

Appearance and Odor:
COLORLESS TO PALE YELLOW LIQUID; NO ODOR REPORTED.

Percent Volatiles by Volume:
N/K

Corrosion Rate:
N/K

Reactivity Data

Stability Indicator:
YES

Stability Condition To Avoid:
NONE.

Materials To Avoid:
OXIDIZING MATL CAN CAUSE RXN. WATER, MOISTURE OR HUMID AIR CAN CAUSE HAZ VAPS TO FORM. METHYL ALCOHOL, N-BUTYL ALCOHOL, N-PROPYL ALCOHOL 2-METHOXYETHANOL ARE FORMED UPON CNTCT W/WATER OR HUMID AIR.

Hazardous Decomposition Products:
THERMAL BREAKDOWN DURING FIRE OR VERY HIGH HEAT MAY EVOLVE HAZ DECOMP PRODS: CARBON OXIDES TRACES OF INCOMPLETELY BURNED CARBON CMPDS, SILICON DIOXIDE, METAL OXIDES, FLUORINE CMPDS, FORMALDEHYDE.

Hazardous Polymerization Indicator:
NO

Conditions To Avoid Polymerization:
NOT RELEVANT

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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WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Lookchem shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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