

# 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 TRIMETHOXYSILANE

### 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

### ACGIH STEL:

N/P

### Code:

## Control Measures

### Respiratory Protection:

7 USE NIOSH APPROVED RESPIRATORY PROT UNLESS ADEQ LOCAL EXHAUST VENT IS PROVIDED/AIR SAMPLING DATA SHOW EXPOSURES ARE W/IN RECOMM 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 APPROVED 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 CONTAMINATED CLOTHING SHOES AS SOON AS PRACTICAL THOROUGHLY CLEAN BEFORE REUSE.

### Supplemental Safety and Health:

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

## Health Hazards Data

### LD50/LC50 Mixture:

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 CONTACT IRRITATES MODERATELY W/REDNESS & SWELL. SKIN: RPTD/PRNGD CONTACT MAY CAUSE DEFAT LEADING TO DERM. INHAL: PROD GENERATES METHYL ALCOHOL WHICH MAY CAUSE BLINDNESS & DMG TO NERVOUS 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 Symptoms Of Overexposure:

HEALTH 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 & POSS 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 VINYLTRIMETHOXYSILANE VAP DURING PERIOD OF MAJOR ORGANOGENESIS PRODUCED MINIMAL MATERNA

### Medical Cond Aggravated By Exposure:

NONE SPECIFIED BY MANUFACTURER.

### First Aid:

EYE: IMMED FLUSH W/H2O FOR AT LST 15 MIN. GET MED ATTN. SKIN: REMOVE & WASH THOROUGHLY W/SOAP & H2O/WATERLESS CLEANSER. GET MED ATTN IF IRRIT/ILL EFTS DEVELOP/PERSIST. INHAL: REMOVE TO FRESH AIR. GET 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 ACCORD 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 RELE/SPILL, WEATHER CNDTN, 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 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 HNDL 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 APPICATIONS 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 (OR SPRAY), CARBON DIOXIDE (CO2), DRY CHEMICAL, FOAM.

### Fire Fighting Procedures:

USE NIOSH APPROVED SCBA & FULL PROT (FP N). EVACUATE AREA IN CASE OF OVERHEATING OR FIRE. HEAT EXPOSURE RELEASES CONDENSED CONTAINERS. COOL W/WATER SPRAY.

### Unusual Fire/Air & Explosion Hazard:

PYREX POSS FIRE HAZ BY SUITABLE MEANS, SUCH AS, BONDING & GROUNDING, INERT GAS PURGE, VAP DILUTION & THE LIKE.

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:

### Decomp Temp:

N/K

### Boiling Point:

N/K

### Melt/Freeze Pt:

N/K

### Decomp Temp:

N/K

### Vapor Pres:

N/K

### Vapor Density:

N/K

### Volatile Org Content %:

N/K

### Spec Gravity:

0.80

### VOC Pounds/Gallon:

N/K

### pH:

N/A

### VOC Grams/Liter:

N/K

### 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

### Neutralizing Agent:

NONE SPECIFIED BY MANUFACTURER.

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## Reactivity Data

### Stability Indicator:

YES

### Stability Condition To Avoid:

NONE

### Materials To Avoid:

ALCOHOL, N-PROPYL ALCOHOL, 2-METHOXYETHANOL ARE FORMED UPON CNTCT W/WATER OR HUMID AIR.

INCOMPLETE BURNDOWN DURING FIRE OR, VERY HIGH HEAT, MAY EVOLVE HAZ, DECOMP PRODS: CARBON OXIDES, TRACES OF FLUORINE, METAL OXIDES, 2-METHOXYETHANOL, CARBON DIOXIDE, INERT GAS, PURGE, VAP DILUTION & THE LIKE.

POSS FIRE HAZ BY SUITABLE MEANS, SUCH AS, BONDING & GROUNDING, INERT GAS PURGE, VAP DILUTION & THE LIKE.

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