



FC13-TFDOL

4-(Trifluoromethyl)-1,3-Dioxolane

Revised 06-March-2024

1. PRODUCT AND COMPANY IDENTIFICATION	
Product Name	4-(Trifluoromethyl)-1,3-dioxolane
Catalog Number	FC13-TFDOL
CAS Number	None
Supplier	Fluoryx Labs 3650 Research Way, #22 Carson City, NV 89706 USA
Emergency call (VelocityEHS):	+01-813-248-0585 (International) +1-800-255-3924 (USA)
2. HAZARDS INFORMATION	
Emergency Overview	
OSHA Hazards	No known OSHA hazards
GHS Classification	Eye irritation, H320; May cause respiratory irritation, H335
GHS Label elements, including precautional	ry statements
Pictogram Signal word	Warning
Hazard statement(s)	H320: Causes eye irritation. H335: May cause respiratory irritation
Precautionary statement(s)	 P264: Wash hands thoroughly after handling. P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313: If eye irritation persists: Get medical advice/attention.
Hazards not otherwise classified (HNOC) or not	covered by GHS

Inhalation of decomposition products from overheating may cause lung irritation or shortness of breath.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

FC13-TFDOL

Synonyms	None	
Chemical formula	$C_4H_5F_3O_2$	
Molecular weight	142.08 g/mol	
CAS number	None	
EC number	None	
TSCA status	Not listed	
Components		
Material	Classification	Concentration
4-(Trifluoromethyl)-1,3-dioxolane	H320, H335	≤ 100%

4. FIRST AID MEASURES	
If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash off with soap and water.
In case of eye contact	Flush eyes with water for 15 minutes. Consult a physician
If swallowed	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
5. FIREFIGHTING MEASURES	
Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment, such as: carbon dioxide, dry chemical powder, water. Do not use water with a full water jet.
Special protective equipment for firefighters	Wear self-contained breathing apparatus for fire fighting.
Hazardous combustion products	Hazardous decomposition products formed under fire conditions - carbon oxides, hydrogen fluoride.
6. ACCIDENTAL RELEASE MEASURES	
Personal precautions	Wear personal protective equipment. Avoid contact with the skin and the eyes. Ensure adequate ventilation. Avoid inhalation of vapor, mist, dust, or gas.
Environmental precautions	Do not let product enter drains.
Methods for cleaning up	Mix with sand or vermiculite. Transfer to a closable, labeled salvage container for disposal by an appropriate method
7. HANDLING AND STORAGE	
Precautions for Safe Handling	Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Normal measures for preventive fire protection.
Conditions for Safe Storage	Keep container tightly closed in a dry and well-

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection	Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Hand protection	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Eye protection	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin and body protection	Impervious clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Hygiene measures	General industrial hygiene practice.
9. PHYSICAL AND CHEMICAL PROPERTIES	

Appearance Form Liquid Color Colorless Safety Data pН No data available Melting Point/Freezing Point No data available **Boiling Point** 81.5 °C @ 1 atm Flash Point No data available Ignition Temperature No data available No data available Auto-ignition Temperature Lower Explosion Limit No data available Upper Explosion Limit No data available **Thermal Decomposition Temperature** No data available Vapor Pressure No data available 1.40 g/mL @ 20 °C Density Water Solubility No data available Partition Coefficient (n-octanol/water) No data available Relative Vapor Density (Air = 1) > 1 Odor No data available Odor Threshold No data available **Evaporation Rate** No data available Refractive index No data available No data available Viscosity

10. STABILITY AND REACTIVITY	
Storage stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Polymerization will not occur.
Conditions to avoid	Keep away from open flames and heated surfaces above 300 °C.
Materials to avoid	Strong oxidizing agents. Strong acids.
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions - carbon oxides, hydrogen fluoride, carbonyl fluoride.

Oral LD50 No data available Inhalation LC50 No data available Dermal LD50 No data available Other information on acute toxicity No data available Skin corrosion/irritation No data available Serious eye damage/eye irritation No data available Respiratory or skin sensitization No data available Garm cell mutagenicity No data available Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. Reproductive toxicity No data available Single exposure No data available Repeated exposure No data available Aspiration Hazard No data available Potential Health Effects Inhalation Inhalation May be har	11. TOXICOLOGICAL INFORMATION	
Serious eye damage/eye irritationNo data availableRespiratory or skin sensitizationNo data available.Germ cell mutagenicityNo data availableCarcinogenicityIARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.CarcinogenicityACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ARC.NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP.NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP.Seproductive toxicityNo data availableSpecific target organ toxicity (Globally Harmonized System) Single exposure Repeated exposureNo data availableSolution HazardNo data availablePotential Health Effects InhalationMay be harmful if inhaled. May cause respiratory tract irritation.Skin Eyes InspectionMay be harmful if inhaled. May cause respiratory tract irritation.Signs and Symptoms of ExposureTo the best of our knowledge, the chemical, physical, and toxicological properties have not been	Inhalation LC50 Dermal LD50	No data available No data available
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	Signs and Symptoms of Exposure	

Synergistic Effects	No data available
Additional Information	No data available
12. ECOLOGICAL INFORMATION	
Toxicity	No data available
Persistence and Degradability	No data available
Bioaccumulative Potential	No data available
Mobility in Soil	No data available
PBT and vPvB Assessment	No data available
Other adverse effects	No data available
13. DISPOSAL CONSIDERATIONS	
Product	Offer non-recyclable solutions to a licensed disposal company. Contact Fluoryx Inc. to return unused product.
Contaminated packaging	Dispose of as unused product.
14. TRANSPORTATION INFORMATION	
DOT (US)	Not dangerous goods
IMDG	Not dangerous goods
ΙΑΤΑ	Not dangerous goods
15. REGULATORY INFORMATION	
OSHA Hazards	No known OSHA hazards.
TSCA Status	Not listed.
DSL Status	This product does not contain components listed on the Canadian NDSL list.
SARA 302 Components	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 Components	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
SARA 311/312 Hazards	No SARA hazards.
Massachusetts Right To Know Components	No components are subject to the Massachusetts Right to Know Act.
Pennsylvania Right To Know Components	No components are subject to the Pennsylvania Right to Know Act.
New Jersey Right To Know Components	No components are subject to the New Jersey Right to Know Act.
California Prop. 65 Components	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.
16. OTHER INFORMATION	

Further information:

Not for drug, household, or other uses. The previous information is based upon our current knowledge and experience of our product and is not exhaustive. It applies to the product as defined by the specifications. In case of combinations or mixtures, one must confirm that no new hazards are likely to exist. In any case, the user is not exempt from observing all legal, administrative and regulatory procedures relating to the product, personal hygiene, and integrity of the work environment. Unless noted to the contrary, the technical information applies only to pure product.

To our actual knowledge, the information contained herein is accurate as of the date of this document. However, neither Fluoryx Inc., nor any of its affiliates makes any warranty, express or implied, or accepts any liability in connection with this information or its use. This information is for use by technically skilled persons at their own discretion and risk and does not relate to the use of this product in combination with any other substance or any other process. This is not a license under any patent or other proprietary right. The user alone must finally determine suitability of any information or material for any contemplated use, the manner of use and whether any patents are infringed. This information gives typical properties only and is not to be used for specification purposes.

End of MSDS