

# MSDS - Material Safety Data Sheet

<b>Section 1.</b>	<b>Product and Company Identification</b>
Supplier	CovaChem, LLC. 6260 East Riverside Blvd, STE 119 Loves Park, IL 61111 Phone: +1.815.315.1271 x3 Fax: +1.815.315.1272
Emergency Phone #:	+1.815.714.8421
Product Number	12104-10x1, 12104-25, 12104-100, 12104-custom
Product Name	<a href="#">LCMS Grade TFA</a>
<b>Section 2.</b>	<b>Hazard Identification</b>
<b>OSHA Hazards</b>	Corrosive
<b>GHS Classification</b>	Eye damage (category 1), Skin corrosion (category 1A)
<b>Pictogram</b>	
<b>Signal Word</b>	Danger
<b>Hazard statement</b>	Causes severe eye and skin damage
<b>Safety Statements</b>	Always wear protective clothing, gloves, safety goggles and face shield. If contact with skin wash thoroughly with water and soap. If contact with EYES occurs, remove contact lenses and rinse for several minutes and contact a doctor.
<b>HMIS Classification</b>	Health Hazard 3 Flammability 0 Physical Hazard 0
<b>NFPA Rating</b>	Health Hazard 3 Flammability 0 Physical Hazard 0
<b>Potential Health Effects</b>	Inhalation May be harmful if inhaled. May cause respiratory irritation. Skin May be harmful if absorbed through the skin. Eyes May cause irritation to the eyes. Ingestion May be harmful if ingested.
<b>Section 3.</b>	<b>Composition / Information on Ingredients</b>
Synonyms	<a href="#">TFA; Trifluoroacetic acid</a>
Molecular Weight	114.03
Formula	C4F7HO2
<b>Section 4.</b>	<b>First Aid Measures</b>
If Inhaled	Move to fresh air. Give artificial respiration if breathing has ceased.
In case of Skin Contact	Remove affected clothes immediately. Wash with soap and water.
In Case of Eye Contact	Flush with plenty of water. Seek medical attention promptly.
If Swallowed	Rinse mouth with water and seek medical attention promptly.
<b>Section 5.</b>	<b>Fire-Fighting Measures</b>
Condition of Flammability	Material is flammable when temperature is above flash point, sparks or open flame is present.
Suitable Extinguishing Media	Water, dry chemical, alcohol resistant foam are all suitable.
Specific Hazards from Chemical	Container may explode under fire conditions.
Protective Equipment	If needed, wear self contained breathing apparatus.
Hazardous Combustion Products	Carbon oxides, nitrogen oxides, and hydrogen fluoride may form upon combustion
<b>Section 6.</b>	<b>Accidental Release Measures</b>
Personal Precautions	Avoid breathing dust or vapors. Use in well ventilated area.
Environmental precautions	Prevent environmental release. Do not pour down drain.
<b>Section 7.</b>	<b>Handling and Storage</b>
Conditions for Safe Storage	Store container in a well ventilated, dry location. Keep away from ignition sources.
Precautions regarding safe handling	Provide adequate ventilation, used in a fume hood, keep away from ignition sources.
<b>Section 8.</b>	<b>Exposure Controls / Personal Protection</b>
Does not contain any substance with occupational exposure limit values.	
Respiratory Protection	Use of an air purifying respiratory is recommended, type N100 or type P3 (EN 143).
Hand Protection	Handle with nitrile rubber gloves.
Eye Protection	Use a face shield and safety glasses.
Body and Skin Protection	Complete chemical protective suit is recommended. The personal protective equipment should be selected depending upon the concentration and amount of chemical at work station.
Hygiene	Wash hands and arms after use, prior to eating, and before breaks. Always use good industrial hygiene and safety practices.
<b>Section 9.</b>	<b>Physical and Chemical Properties</b>
Form	clear liquid
Melting Point	-15 C
Boiling Point	72 C
Flash Point	unavailable
Ignition Temperature	unavailable
Autoignition Temperature	unavailable
Density	1.5
Water Solubility	unavailable
Partition Coeff: n-octanol/water	-2.1
<b>Section 10.</b>	<b>Stability and Reactivity</b>

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Chemical Stability	Stable under recommended storage conditions.
Conditions to Avoid	Keep away from heat, sparks and ignition sources.
Materials to Avoid	Avoid contact with metals. Avoid contact with Alkali metals.
Hazardous decomposition products	Hydrogen flouride, carbon oxides may form under fire conditions.
<b>Section 11.</b>	<b>Toxicology</b>
Oral LD50	500 mg/kg (Rat)
Inhalation LC50	5000 ppm (Rat)
Dermal LD50	data unavailable
Skin corrosion / irritation	data unavailable
Eye Damage or Irritation	data unavailable
Skin and Respiratory Sensitization	Inhalation may cause chronic bronchitis
Mutagenicity	Lab experiments show mutagenic effects, however Ames test indicates non-mutagenic.
Carcinogeneity	data unavailable
IARC	No component present at greater than 0.1% is identified as a probable, possible or confirmed human carcinogen by IARC.
ACGIH	No component present at greater than 0.1% is identified as a probable, possible or confirmed human carcinogen by ACGIH.
NTP	No component present at greater than 0.1% is identified as a probable, possible or confirmed human carcinogen by NTP.
OSHA	No component present at greater than 0.1% is identified as a probable, possible or confirmed human carcinogen by OSHA.
Reproductive Toxicity	data unavailable
Teratogenicity	data unavailable
Aspiration Hazard	data unavailable
Potential Health Effects	
Inhalation	May be harmful if inhaled. Material is damaging to mucous membranes and upper respiratory tract.
Ingestion	May cause harm if swallowed.
Skin	May cause harm if absorbed through skin.
Eyes	May cause eye irritation and burns.
<b>Section 12.</b>	<b>Ecological Information</b>
Toxicology	data unavailable
Persistence and degradability	data unavailable
Bioaccumulative potential	data unavailable
Mobility in soil	data unavailable
PBT and vPvB assessment	data unavailable
Other Adverse effects	data unavailable
<b>Section 13.</b>	<b>Disposal Consideration</b>
Disposal Considerations	Generation of waste should be kept to a minimum when possible. Any waste generated should be recycled when possible. Please dispose any unused or used materials in accordance with applicable national, regional and local laws and regulations.
<b>Section 14.</b>	<b>Transportation Information</b>
<b>DOT (USA)</b>	
UN Number: 3265 Packing Group: I Class: 8	
Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (Trifluoroacetic acid)	
Poison Inhalation Hazard: No	Marine Pollutant: No
<b>IMDG</b>	
UN Number: 3265 Packing Group: I Class: 8	
Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (Trifluoroacetic acid)	
Marine Pollutant: No	
<b>IATA</b>	
UN Number: 3265 Packing Group: I Class: 8	
Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (Trifluoroacetic acid)	
<b>Section 15.</b>	<b>Regulatory Information</b>
OSHA Hazards	Corrosive
SARA 302 Components	No chemicals in this material are subject to reporting requirements of SARA Title III, Section 302.
SARA 311/312	Acute Health Hazard
Californial Prop. 65 Components	This material does not contain any chemicals known to the State of California to cause reproductive harm or birth defects.
Right to Know Components	<a href="#">Trifluoroacetic acid (CAS# 76-05-1)</a>
<b>Section 16.</b>	<b>Other Information</b>
Other Information	The information represented in this MSDS is believed to be correct and is based on the current state of our knowledge. This document or any other document does not represent or suggest any type of warantee or guarantee of the product properties or characteristics of this material. CovaChem, LLC and its affiliates shall not be held liable for any damages that result from