MSDS - Material Safety Data Sheet

Section 1.	Product and Company Id	entification	
Supplier	CovaChem, LLC.		
	6260 East Riverside Blvd,	STE 119	
	Loves Park, IL 61111		
	Phone: +1.815.315.1271	x511	
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Emergency Phone #:	+1.815.714.8421	+1.815.714.8421	
Product Number		2201-100, 12201-custom	
Product Name	Trifluoroacetic anhydride (TFAA)		
Section 2.	Composition / Information	on on Ingredients	
OSHA Hazards	Corrosive		
	Target Organ Effects		
HMIS Classification	Health Hazard	3	
	Flammability	0 1	
NFPA Rating	Physical Hazard Health Hazard	3	
NFFA Rating	Flammability	0	
	Physical Hazard	1	
	Reactivity Hazard	2	
Potential Health Effects	Inhalation	May be harmful if inhaled. May cause respiratory irritation.	
	Skin	Causes severe skin irritation. May be harmful if absorbed through the skin.	
	Eyes	Causes severe eye burns.	
	Ingestion	May be harmful if ingested.	
Section 3.	Hazards Identification		
Synonyms	TFAA; Trifluoroacetic acid	l anhydride	
Molecular Weight	210.03		
Formula	C4F6O3		
Section 4.	First Aid Measures		
If Inhaled	Move to fresh air. Give a	rtificial 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.		
Section 5.	Fire-Fighting Measures		
Condition of Flammability	Material is not flammable or combustible.		
Suitable Extinguishing Media	Water, dry chemical, alcohol resistant foam are all suitable.		
Specific Hazards from Chemical	Self-contained breathing apparatus		
Protective Equipment	If needed, wear self contained breathing apparatus.		
Hazardous Combustion Products	Carbon oxides and hydrogen fluoride may form upon combustion		
Section 6.	Accidental Release Measures		
Personal Precautions	Avoid breathing dust or vapors. Use in well ventilated area. Prevent environmental release. Do not pour down drain.		
Environmental precautions Section 7.		lease. Do not pour down drain.	
	Handling and Storage		
Conditions for Safe Storage		ventilated, dry location. Keep away from ignition sources.	
Precautions regarding safe handling	Provide adequate ventilat	tion, used in a fume hood, keep away from ignition sources.	
Section 8.	Exposure Controls / Pers	onal Protection	
Does not contain any substance with occupa	•		
Respiratory Protection		piratory is recommended, type N100 or type P3 (EN 143).	
Hand Protection	Handle with nitrile rubber gloves.		
Eye Protection	Use a face shield and safe	ay glasses.	
		ctive suit is recommended. The personal protective equipment should	
Body and Skin Protection	be selected depending up	on the concentration and amount of chemical at work station.	
	Wash hands and arms after use, prior to eating, and before breaks. Always use good industrial		
Hygiene	hygiene and safety praction	ces.	
Section 9.	Physical and Chemical Pr	operties	
Form	clear, colorless liquid		
Melting Point	unavailable		
Boiling Point	40 °C		
Flash Point	unavailable		
Ignition Temperature	unavailable		
Autoignition Temperature	unavailable		
Density	1.511 g/cm3 at 20 °C		
Water Solubility	unavailable		
Partition Coeff: n-octanol/water	unavailable		
Section 10.	Stability and Reactivity		
	Stable under recommended storage conditions.		
Chemical Stability			
Chemical Stability Possibility of hazardous reactions Conditions to Avoid	unavailable Keep away from heat, spa		

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Materials to Avoid	Strong Oxidizers, Strong Acids	
Hazardous decomposition products	Silicon oxides, hydrogen flouride, carbon oxides formed under fire conditions.	
Section 11.	Toxicology	
Oral LD50	data unavailable	
Inhalation LC50	data unavailable	
Dermal LD50		
	data unavailable	
Skin corrosion / irritation	severe skin irritation - 24 hours (rabbit)	
Eye Damage or Irritation	severe eye irritation - 24 hours (rabbit)	
Skin and Respiratory Sensitization	data unavailable	
Germ Cell Mutagenicity	data unavailable	
Carcinogeneity		
	No component present at greater than 0.1% is identified as a probable, possible or confirmed	
IARC	human carcinogen by IARC.	
	naman carcinogen by iAite.	
	No component present at greater than 0.1% is identified as a probable, possible or confirmed	
ACGIH	human carcinogen by ACGIH.	
	No component present at greater than 0.1% is identified as a probable, possible or confirmed	
NTP	human carcinogen by NTP.	
	No component present at greater than 0.1% is identified as a probable, possible or confirmed	
OSHA	human carcinogen by OSHA.	
Reproductive Toxicity	data unavailable	
Teratogenicity	data unavailable	
Aspiration Hazard	data unavailable	
Potential Health Effects		
	May be harmful if inhaled. Material is damaging to mucous membranes and upper respiratory	
Inhalation	tract.	
	May cause harm if swallowed.	
Ingestion		
Skin	May cause harm if absorbed.through skin.	
Eyes	May cause eye irritation and burns.	
Section 12.	Ecological Information	
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	
Section 13.	Disposal Consideration	
Disposal Considerations	Disposal consideration	
Disposal considerations	Generation of waste should be kept to a minimum when possible. Any waste generated should	
	be recycled when posslible. Please dispose any unused or used materials in accordance with	
	applicable national, regional and local laws and regulations.	
Section 14.	Transportation Information	
DOT (USA)		
UN Number: 3265 Packing Group: I Class: 8		
Shipping Name: Corrosive liquid, (Trifluoroace		
Poison Inhalation Hazard: No	Marine Pollutant: No	
IMDG		
UN Number: 3265 Packing Group: I Class: 8		
Shipping Name: Corrosive liquid, (Trifluoroace	tic anhydride)	
Poison Inhalation Hazard: No	Marine Pollutant: No	
IATA		
UN Number: 3265 Packing Group: I Class: 8		
Shipping Name: Corrosive liquid, (Trifluoroace		
Section 15.	Regulatory Information	
OSHA Hazards	Flammable liquid, irritant	
SARA 302 Components	No chemicals in this material are subject to reporting requirements of SARA Title III, Section 302.	
SARA 311/312	Fire Hazard, Acute Health Hazard	
	This material does not contain any chemicals known to the State of California to cause	
Californial Prop. 65 Components	reproductive harm or birth defects.	
Right to Know Components	Trifluoroacetic anhydride (CAS# 407-25-0)	
Section 16.	Other Information	
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 contact	