

## T0398 Material Safety Data Sheet

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HAZARD WARNIN	IGS	RISK PHRASES				PROTECTIVE CLOTHING		
	Flammable Corrosive to Open carefu	Reacts violently with water. Flammable material; avoid heat and sources of ignition. Corrosive to eyes and skin on contact. Open carefully; may develop pressure. Refrigerate if possible. Lachrymator.						
Section I.	Chemical Prod	luct and Cor	npany Ide	ntificati	on			
Chemical Name	Trichlor	osilane						
Catalog Number	T0398	T0398			Supplier	TCI Am	erica Harborgate St.	
Synonym	Silane A-19	Silane A-19			-	Portland	d OR	
Chemical Formula	Cl₃SiH	1-800-423-8 Cl <sub>3</sub> SiH						
CAS Number 10025-78-2					In case of Emergency Call		rec® 24-9300 (U.S.) 27-3887 (International)	
Section II.	Composition a	and Informat	tion on Ing	gredient	S			
Chemica	l Name	CAS Number	Percent (%)	7	LV/PEL		Toxicology Data	
Trichlor	osilane	10025-78-2	Min. 98.0 (T)	Not availabl	е.		$D_{50}$ (oral) 1030 mg/kg e LC <sub>50</sub> (inhalation) 1500 mg/m	
Section III.	Hazards Ident	fication						
Acute Health Effects Corrosive to skin, eyes, and respiratory system. Liquid or spray m   membranes of the eyes, mouth and respiratory tract. Skin contact damage or blindness. Inhalation of the spray mist may produce   coughing, choking, or shortness of breath. Corrosive materials industrial hygiene practices and always wear proper protective equi   Chronic Health Effects CARCINOGENIC EFFECTS : Not available.   MUTAGENIC EFFECTS : Not available. TERATOGENIC EFFECTS : Not available.   Toxicity to the reproductive system. Not available. Toxicity to the reproductive system: Not available.   There is no known effect from chronic exposure to this product. not known to aggravate existing medical conditions.			severe irritati s may cause s ipment when h	on of respira serious injur handling this	atory tract, characterized by y if ingested. Follow safe compound.			
Section IV.	First Aid Meas	ures						
Eye Contact							running water for a minimum Treat symptomatically and	
Skin Contact	protecting your of exposed skin, su soap. Be particu	If the chemical gets spilled on a clothed portion of the body, remove the contaminated clothes as quickly as possible, protecting your own hands and body. Place the victim under a deluge shower. If the chemical touches the victim's exposed skin, such as the hands: Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Seek medical attention. Treat symptomatically and supportively. Wash any contaminated clothing before reusing.						
Inhalation	breathing is diffic dangerous to the	Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform artificial respiration. WARNING: It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention and, if possible, show the chemical label. Treat symptomatically and						
Ingestion	administer artific		e conscious pers	son drink sev	eral glasses of	f water or mi	If the victim is not breathing, ilk. Seek immediate medical	
Section V.	Fire and Explo	sion Data						
Flammability	Flammable.	•		uto-Ignition	Not	Not available.		
Flash Points	-13.9℃							
Combustion Products		ides, halogenated co ly toxic HCl gas is pr	•					
Fire Hazards		a fire. Highly flamma					sed containers may explode	

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Explosion Hazards	Trichlorosilane     Risks of explosion of the product in presence of mechanical impact: Not available.     Risks of explosion of the product in presence of static discharge: Not available.     No additional information is available regarding the risks of explosion.				
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemicals, C LARGE FIRE: Use water spray, fog o				
Section VI.	Accidental Release Measures				
Spill Cleanup Instructions	Corrosive, flammable material. Keep away from heat and sources of ignition. Mechanical exhaust required. Stop leak if without risk. Consult federal state, and/or local authorities for assistance on disposal.				
Section VII.	Handling and Storage				
Handling and Storage Information	CORRROSIVE. FLAMMABLE. Rea travel to source of ignition and flash pose a fire risk. Evaporate residue u from heat and sources of ignition. Me dry, cool place. Avoid excessive h ventilation, wear suitable respiratory possible. Treat symptomatically and	back. Closed containers may explo nder a fume hood if possible. Ground echanical exhaust required. When no leat and light. Do not breathe gas, f y equipment. If you feel unwell, see supportively. Avoid contact with skin a	nited by heat, sparks, or flames. Vapors ma de from heat of a fire. Empty containers ma all equipment containing material. Keep awa t in use, tightly seal the container and store in jumes, vapor or spray. In case of insufficie k medical attention and show the label whe and eyes. Its, strong acids and bases, alcohols, amine		
Section VIII.	Exposure Controls/Persor	nal Protection			
Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash station and safety shower is proximal to the work-station location.				
Personal Protection	Face sheild. Lab coat. Vapor respirator. Boots. Gloves. A MSHA/NIOSH approved respirator must be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.				
Exposure Limits	Not available.				
Section IX.	Physical and Chemical Pro	operties			
Physical state @ 20°C	Clear, colorless liquid.	Solubility	Not available.		
Specific Gravity	1.342 (water=1)				
Molecular Weight	135.45	Partition Coefficient	Not available.		
Boiling Point	31 °C (87.8 °F)	Vapor Pressure	400 mm of Hg (@ 20℃)		
Melting Point	-127℃ (-196.6 °F)	Vapor Density	1 (Air = 1)		
Refractive Index	Not available.	Volatility	Not available.		
Critical Temperature	Not available.	Odor	Not available.		
Viscosity	Not available.	Taste	Not available.		
Section X.	Stability and Reactivity Da	ita			
Stability	This material is stable if stored under	This material is stable if stored under proper conditions. (See Section VII for instructions)			
Conditions of Instability	Avoid excessive heat and light.	Avoid excessive heat and light.			
Incompatibilities	Reactive with strong oxidizing agents	Reactive with strong oxidizing agents, strong acids and bases, alcohols, amines, moisture.			
Section XI.	Toxicological Information	,			
RTECS Number	VV5950000				
Routes of Exposure	Eye contact. Ingestion. Inhalation. Skin contact.				
Toxicity Data	Rat LD <sub>50</sub> (oral) 1030 mg/kg Mouse LC <sub>50</sub> (inhalation) 1500 mg/m³/2H				
Chronic Toxic Effects	CARCINOGENIC EFFECTS : Not ava MUTAGENIC EFFECTS : Not availab TERATOGENIC EFFECTS : Not avail Toxicity to the reproductive system: N	ole. lable. lot available.	or prolonged exposure to this compound is n		

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Acute Toxic Effects	Corrosive to skin, eyes, and respiratory system. Liquid or spray mist may produce tissue damage, particularly in mucous membranes of the eyes, mouth and respiratory tract. Skin contact may produce burns. Eye contact can result in corneal damage or blindness. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Corrosive materials may cause serious injury if ingested. Follow safe industrial hygiene practices and always wear proper protective equipment when handling this compound.
Section XII.	Ecological Information
Ecotoxicity	Not available.
Environmental Fate	Not available.
Section XIII.	Disposal Considerations
Waste Disposal	Recycle to process, if possible. Consult your local or regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe al federal, state, and local regulations when disposing of this substance.
Section XIV.	Transport Information
DOT Classification	DOT CLASS: 4.3 Dangerous when wet. DOT CLASS: 3 Flammable liquid. DOT CLASS: 8 Corrosive material.
PIN Number	UN1295
Proper Shipping Name	Trichlorosilane
Packing Group (PG)	Ι
DOT Pictograms	

Section XV. Ot	ther Regulatory Information and Pictograms
TSCA Chemical Inventory (EPA)	This product is <b>ON</b> the EPA Toxic Substances Control Act (TSCA) inventory.
WHMIS Classification (Canada)	Not controlled under WHMIS (Canada).
EINECS Number (EEC)	233-042-5
EEC Risk Statements	15- Contact with water gives off highly flammable gases. 17- Spontaneously flammable in air. 24/25- Toxic in contact with skin and if swallowed. 43- May cause sensitization by skin contact.
Japanese Regulatory Data	Not available.

## Section XVI. Other Information

Version 1.0 Validated on 5/29/2007. Printed 5/29/2007.

## Notice to Reader

TCI laboratory chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our MSDS sheets are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated MSDS sheets for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, facial mask, fume hood). For proper handling and disposal, always comply with federal, state, and local regulations.

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