# SAFETY DATA SHEET

Revision date 16-November-2023

1. Identification			
Product identifier			
Product Name	CHLOROTRIMETHYLSILANE		
Other means of identification			
Product Code(s)	C2100		
UN/ID no	UN1298		
Synonyms	None		
Recommended use of the chemical	and restrictions on use		
Recommended use	No information available		
Restrictions on use	No information available		
Details of the supplier of the safety	data sheet		
Supplier Address Spectrum Chemical Mfg. Corp. 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000			

Emergency telephone number

**Emergency Telephone** 

Chemtrec 1-800-424-9300

# 2. Hazard(s) identification

# **Classification**

Acute toxicity - Oral	Category 3
Acute toxicity - Dermal	Category 4
Acute toxicity - Inhalation (Vapors)	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 3
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Flammable liquids	Category 2

# Hazards not otherwise classified (HNOC)

Not applicable

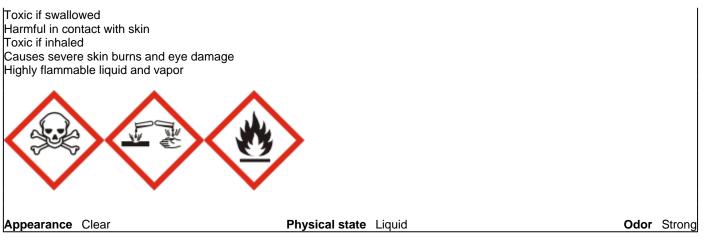
# Label elements

Danger

Hazard statements



Revision Number 2



# **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Use only outdoors or in a well-ventilated area Do not breathe dusts or mists Wear protective gloves/protective clothing/eye protection/face protection Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking Keep container tightly closed Ground/bond container and receiving equipment Use explosion-proof electrical/ ventilating / lighting/ .? / equipment Use only non-sparking tools Take precautionary measures against static discharge Keep cool

# Precautionary Statements - Response

Immediately call a POISON CENTER or doctor IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor Call a POISON CENTER or doctor if you feel unwell IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower Wash contaminated clothing before reuse IF INHALED: Remove person to fresh air and keep comfortable for breathing Immediately call a POISON CENTER or doctor IF SWALLOWED: Immediately call a POISON CENTER or doctor Rinse mouth Do NOT induce vomiting In case of fire: Use CO2, dry chemical, or foam to extinguish

# **Precautionary Statements - Storage**

## Store locked up.

Store in a well-ventilated place. Keep container tightly closed

# **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

## Unknown acute toxicity

## Other information

Reacts with water to evolve corrosive gases.

# 3. Composition/information on ingredients

# Substance

Chemical name	CAS No	Weight-%
Chlorotrimethylsilane	75-77-4	100

# 4. First-aid measures

# **Description of first aid measures**

General advice	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.		
Inhalation	Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical advice/attention. Immediate medical attention is required.		
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.		
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get immediate medical advice/attention.		
Ingestion	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.		
Self-protection of the first aider	Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Do not breathe vapor or mist.		
Most important symptoms and effects, both acute and delayed			
Symptoms	Burning sensation. Coughing and/ or wheezing. Difficulty in breathing.		
Indication of any immediate medical attention and special treatment needed			
Note to physicians	Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure.		

5. Fire-fighting measures	
Suitable Extinguishing Media Large Fire	Dry chemical. Carbon dioxide (CO2). water spray. Alcohol resistant foam. CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.
Specific hazards arising from the chemical	risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors.

# Explosion data

Sensitivity to mechanical impact none.

Sensitivity to static discharge yes.

Special protective equipment for	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.
fire-fighters	Use personal protection equipment.

# 6. Accidental release measures

# Personal precautions, protective equipment and emergency procedures

Personal precautions	Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Attention! Corrosive material. Do not breathe vapor or mist.
Other information	Ventilate the area. Refer to protective measures listed in Sections 7 and 8.
Methods and material for containm	ent and cleaning up
Methods for containment	Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
Methods for cleaning up	Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

# 7. Handling and storage

# Precautions for safe handling

Advice on safe handling Use personal protection equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Do not breathe vapor or mist.

# Conditions for safe storage, including any incompatibilities

Storage ConditionsKeep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat,<br/>sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static<br/>electricity). Keep in properly labeled containers. Do not store near combustible materials.<br/>Keep in an area equipped with sprinklers. Store in accordance with the particular national<br/>regulations. Store in accordance with local regulations. Keep out of the reach of children.<br/>Store locked up. Protect from moisture. Store away from other materials.

# 8. Exposure controls/personal protection

# Control parameters

**Exposure Limits** 

The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

# Appropriate engineering controls

Engineering controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, su	ch as personal protective equipment
Eye/face protection	Tight sealing safety goggles. Face protection shield.
Hand protection	Wear suitable gloves. Impervious gloves.
Skin and body protection	Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Antistatic boots.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General hygiene considerations	Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Do not breathe vapor or mist.

# 9. Physical and chemical properties

Information on basic physical and chemical properties				
Physical state	Liquid			
Appearance	Clear			
Color	Colorless			
Odor	Strong			
Odor threshold	No information available			
Property	Values	Remarks • Method		
pH	no data available	None known		
Melting point / freezing point	-58 °C / -72.4 °F	None known		
Boiling point / boiling range	57 °C / 134.6 °F	None known		
Flash point	-28 °C / -18.4 °F	None known		
Evaporation rate	no data available	None known		
Flammability (solid, gas)	no data available	None known		
Flammability Limit in Air		None known		
Upper flammability or explosive	6 %			
limits				
Lower flammability or explosive	1.8 %			
limits				
Vapor pressure	No data available	None known		
Vapor density	3.8	None known		
Relative density	0.85	None known		
Water solubility	No data available	None known		
Solubility(ies)	no data available	None known		
Partition coefficient	No data available	None known		
Autoignition temperature	350 °C / 662 °F	None known		
Decomposition temperature		None known		
Kinematic viscosity	no data available	None known		
Dynamic viscosity	No data available	None known		
Other information				
Explosive properties	No information available			
Oxidizing properties	No information available			
Softening point	No information available			
Molecular weight	108.64			
VOC Content (%)	No information available			

# 10. Stability and reactivity

Reactivity	No information available.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	Heat, flames and sparks. Exposure to air or moisture over prolonged periods. Excessive heat.
Incompatible materials	Acids. Bases. Oxidizing agent.

Hazardous decomposition products None known based on information supplied.

# 11. Toxicological information

# Information on likely routes of exposure

# **Product Information**

Inhalation	Specific test data for the substance or mixture is not available. Corrosive by inhalation. (based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs. Pulmonary edema can be fatal. Toxic by inhalation.	
Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye damage. (based on components). Corrosive to the eyes and may cause severe damage including blindness. May cause irreversible damage to eyes.	
Skin contact	Specific test data for the substance or mixture is not available. Corrosive. (based on components). Causes burns. May be absorbed through the skin in harmful amounts. Harmful in contact with skin.	
Ingestion	Specific test data for the substance or mixture is not available. Causes burns. (based on components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung damage if swallowed. May be fatal if swallowed and enters airways.	
Symptoms related to the physical, chemical and toxicological characteristics		
Symptoms	Redness. Burning. May cause blindness. Coughing and/ or wheezing. Difficulty in breathing.	

Acute toxicity

Numerical measures of toxicity

# Unknown acute toxicity

# **Component Information**

Chemical	name	Oral LD50	Dermal LD50	Inhalation LC50
Chlorotrimet 75-77	,	= 5660 µL/kg (Rat)	= 1500 mg/kg (Rabbit)	= 12.9 mg/L (Rat)1 h

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	Classification based on data available for ingredients. Causes burns.		
Serious eye damage/eye irritation	Classification based on data available for ingredients. Risk of serious damage to eyes. Causes burns.		
Respiratory or skin sensitization	No information available.		
Germ cell mutagenicity	No information available.		
Carcinogenicity	No information available.		
Reproductive toxicity	No information available.		
STOT - single exposure	No information available.		
STOT - repeated exposure	No information available.		
Aspiration hazard	No information available.		
Other adverse effects	No information available.		
Interactive effects	No information available.		

12. Ecological information			
Ecotoxicity	The environmental impact of this product has not been fully investigated.		
Persistence and degradability Bioaccumulation	No information available.		

# **Component Information**

Chemical name	Partition coefficient
Chlorotrimethylsilane	3
75-77-4	

Other adverse effects

No information available.

13. Disposal considerations		
Waste treatment methods		
Waste from residues/unused products	Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.	
Contaminated packaging	Empty containers pose a potential fire and explosion hazard. Do not cut, puncture of weld containers.	

# 14. Transport information

DOT	
UN/ID no	UN1298
Proper shipping name	Trimethylchlorosilane
Hazard class	3
Subsidiary Class	8
Special Provisions	11

A3, A7, B77, N34, T10, TP2, TP7, TP13 Severe Marine Pollutant UN1298, Trimethylchlorosilane, 3 (8), II Special Provisions Marine Pollutant Description Emergency Response Guide 155 Number

# Τ

TDG UN/ID no. Proper shipping name Hazard class Subsidiary Class Packing Group Description	UN1298 Trimethylchlorosilane 3 8 II UN1298, Trimethylchlorosilane, 3 (8), II
MEX UN-No Proper Shipping Name Hazard class Subsidiary Class Packing Group Description	UN1298 Trimethylchlorosilane 3 8 II UN1298, Trimethylchlorosilane, 3 (8), II
ICAO (air) UN/ID no. Proper shipping name Hazard class Subsidiary hazard class Packing Group Description	UN1298 Trimethylchlorosilane 3 8 II UN1298, Trimethylchlorosilane, 3 (8), II
IATA UN number Proper shipping name Hazard Class Subsidiary hazard class Packing group Description	UN1298 Trimethylchlorosilane 3 8 II UN1298, Trimethylchlorosilane, 3 (8), II
IMDG UN number Proper shipping name Hazard Class Subsidiary hazard class Packing group EmS-No Marine Pollutant Description	UN1298 Trimethylchlorosilane 3 8 II F-E, S-C NP1 UN1298, Trimethylchlorosilane, 3 (8), II, (-28°C c.c.)
<u>RID</u> UN number Proper shipping name Hazard Class Packing group Classification code Description Labels	UN1298 Trimethylchlorosilane 3 II FC UN1298, Trimethylchlorosilane, 3 (8), II 3 + 8
ADR UN number Proper shipping name Hazard Class Subsidiary hazard class Packing group Classification code Tunnel restriction code Description	1298 Trimethyl-Ichlorosilane 3 8 II FC (D/E) 1298, Trimethyl-Ichlorosilane, 3 (8), II, (D/E)

Labels
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3 + 8

ADN	
UN/ID No	UN1298
Proper shipping name	Trimethylchlorosilane
Hazard Class	3
Packing Group	II
Classification code	FC
Description	UN1298, Trimethylchlorosilane, 3 (+ 8), II
Hazard label(s)	3 + 8
Limited quantity (LQ)	0
ventilation	VE01
Equipment Requirements	PP, EP, EX, A

# 15. Regulatory information

## International Inventories

### TSCA

Complies

DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	This product complies with ENCS:
IECSC	This product complies with China:
KECL	Complies
PICCS	Complies
AICS	All the constituents of this material are listed on the Australian Inventory of Chemical
	Substances (AICS).

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

# **US Federal Regulations**

# SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

# SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

# CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

# **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

# US State Regulations

<u>California Proposition 65</u> This product does not contain any Proposition 65 chemicals.

# U.S. State Right-to-Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Chlorotrimethylsilane 75-77-4	1931	Present	Environmental hazard

# U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

# 16. Other information

NFPA Health hazards 4 Flammability 3 Instability 0 Physical and chemical propert <u>HMIS</u> Health hazards 3 Flammability 3 Physical hazards 0 Personal protection X	ies -		
Key or legend to abbreviationsLegendSection 8: EXPOSURTWATWA (time-wCeilingMaximum lin	E CONTROLS/PERSONAL reighted average)		– STEL (Short Term Exposure Limit)
Key literature references and s Agency for Toxic Substances an U.S. Environmental Protection A European Food Safety Authority EPA (Environmental Protection A Acute Exposure Guideline Level U.S. Environmental Protection A U.S. Environmental Protection A Food Research Journal Hazardous Substance Database International Uniform Chemical I Japan GHS Classification Australia National Industrial Che NIOSH (National Institute for Oc National Library of Medicine's PU National Library of Medicine's PU National Toxicology Program (N' New Zealand's Chemical Classif Organization for Economic Co-o Organization for Economic Co-o World Health Organization	d Disease Registry (ATSDF gency ChemView Database (EFSA) Agency) (s) (AEGL(s)) gency Federal Insecticide, I gency High Production Volu information Database (IUCL micals Notification and Asso cupational Safety and Healt hemID Plus (NLM CIP) ubMed database (NLM PUB TP) ication and Information Data peration and Development I peration and Development I	R) Fungicide, and Roden ume Chemicals ID) essment Scheme (NIC th) SMED) abase (CCID) Environment, Health, a High Production Volur	CNAS) and Safety Publications me Chemicals Program
Revision date Revision Note <u>Disclaimer</u> The information provided in th	16-November-2023 No information availa		our knowledge information and belief at the

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information

relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet