

## SAFETY DATA SHEET

Issue Date 02-Dec-2025  
Revision Number 2.04

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product identifier**

**Product Name** Chlorotrimethylsilane

**Other means of identification**

**Product Code(s)** 200-08002,202-08001

**Recommended use of the chemical and restrictions on use**

**Recommended Use** For research use only.

**Uses advised against** Seek expert judgment when using for purposes other than those recommended.

**Details of the supplier of the safety data sheet****Manufacturer Address**

FUJIFILM Wako Pure Chemical Corporation

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**Distributor**

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### 2. HAZARDS IDENTIFICATION

**GHS classification****Classification of the substance or mixture****Flammable liquids**

Category 2

**Acute toxicity - Oral**

Category 3

**Acute toxicity - Dermal**

Category 4

**Acute toxicity - Inhalation (Vapors)**

Category 3

**Skin corrosion/irritation**

Category 1

**Serious eye damage/eye irritation**

Category 1

**Specific target organ toxicity (single exposure)**

Category 2

Category 2 systemic toxicity, respiratory system

**Pictograms****Signal word**

Danger

**Hazard statements**

H225 - Highly flammable liquid and vapor

H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage

H301 - Toxic if swallowed

H312 - Harmful in contact with skin

H331 - Toxic if inhaled

H371 - May cause damage to the following organs: systemic toxicity, respiratory system

**Precautionary statements-(Prevention)**

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection Use only outdoors or in a well-ventilated area Do

not breathe dust/fume/gas/mist/vapors/spray 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)**

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/physician

Call a POISON CENTER or doctor/physician if you feel unwell Wash contaminated clothing before reuse IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Rinse mouth Do NOT induce vomiting

In case of fire: Use suitable extinguishing media for extinction

**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

**Others**

**Other hazards** Not available

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Single Substance or Mixture** Substance

**Formula** (CH<sub>3</sub>)<sub>3</sub>SiCl

Chemical Name	Molecular weight	CAS RN	Weight-%
Chlorotrimethylsilane	108.64	75-77-4	98.0

**Impurities and/or Additives:** Not applicable

### 4. FIRST AID MEASURES

**First aid measures**

**General Information** Immediate medical attention is required. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

**Eye contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

**Skin contact** Wash skin with soap and water.

**Inhalation** Remove to fresh air.

**Ingestion** Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Do not induce vomiting without medical advice.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** No information available.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing media**

Water spray (fog). Carbon dioxide (CO<sub>2</sub>). Foam. Extinguishing powder. Sand.

**Unsuitable Extinguishing media** Do not use straight streams.

**Specific hazards arising from the chemical**

Thermal decomposition can lead to release of irritating and toxic gases and vapors. Vapors may form explosive mixtures with air.

**Explosion data**

**Sensitivity to Mechanical Impact** none.

**Sensitivity to Static Discharge** none.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions, protective equipment and emergency procedures** Ensure adequate ventilation, especially in confined areas.

**Environmental precautions**

**Environmental precautions** See Section 12 for additional ecological information.

**Methods and material for containment and cleaning up**

**Methods and material for containment and cleaning up** Absorb dry sand, earth, sawdust and the waste. Collect empty container that can be sealed.

**Methods for cleaning up** Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labeled containers. Soak up with inert absorbent material.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Technical measures** Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use with local exhaust ventilation.

**Protective measures** Ensure adequate ventilation, especially in confined areas. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. All equipment used when handling the product must be grounded.

**Conditions for safe storage, including any incompatibilities**

**Storage conditions** Keep container protect from light, store in well-ventilated place at room temperature (preferably cool). Keep container tightly closed.

**Packaging materials** Glass.

**Incompatible materials** Strong oxidizing agents. Water.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering controls**

In case of indoor workplace, seal the source or use a local exhaust system. Provide the safety shower facility, and hand- and eye-wash facility. And display their position clearly.

**Exposure limits** Not applicable

**Personal protective equipment**

**Respiratory protection** gas mask for organic gas ( JIS T 8152 )  
**Hand protection** chemical protective gloves ( JIS T 8116 )  
**Eye protection** protective eyeglasses or chemical safety goggles (JIS T 8147)  
**Skin and body protection** Long-sleeved work clothes

**General hygiene considerations**

Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form</b>	
<b>Color</b>	Colorless - nearly colorless
<b>Turbidity</b>	clear
<b>Appearance</b>	liquid
<b>Odor</b>	Pungent odor
<b>pH</b>	no data available
<b>Melting point/freezing point</b>	-40 °C
<b>Boiling point, initial boiling point and boiling range</b>	58 °C
<b>Flash point</b>	-18 °C
<b>Evaporation rate:</b>	no data available
<b>Flammability (solid, gas):</b>	no data available
<b>Upper/lower flammability or explosive limits</b>	
<b>Upper:</b>	6.4 %
<b>Lower:</b>	2.0 %
<b>Vapour pressure</b>	no data available
<b>Vapour density</b>	3.77 ( air = 1 )
<b>Specific Gravity / Relative density</b>	0.856 - 0.860 g/mL
<b>Solubilities</b>	water , Ethanol : reacts. Diethyl ether : Very soluble.
<b>n-Octanol/water partition coefficient:(log Pow)</b>	no data available
<b>Auto-ignition temperature:</b>	no data available
<b>Decomposition temperature:</b>	no data available
<b>Viscosity (coefficient of viscosity)</b>	no data available
<b>Dynamic viscosity</b>	no data available
<b>Particle characteristics</b>	no data available

## 10. STABILITY AND REACTIVITY

**Stability**

**Chemical stability** May be altered by light.  
**Reactivity** no data available

**Hazardous reactions**

Possibility of hydrogen chloride generated by hydrolysis occurs.

**Conditions to avoid**

Extremes of temperature and direct sunlight, Heat, flames and sparks, static electricity, spark, Moisture

**Incompatible materials**

Strong oxidizing agents, Water

**Hazardous decomposition products**

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Halides

## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Chlorotrimethylsilane	100-300 mg/kg ( Rat )	= 1500 mg/kg ( Rabbit )	1498 ppm/4hr ( Rat )

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas-source information
Chlorotrimethylsilane	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.

Chemical Name	Acute toxicity -inhalation vapor- source information	Acute toxicity -inhalation dust-source information	Acute toxicity -inhalation mist-source information
Chlorotrimethylsilane	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.

**Skin irritation/corrosion**

Chemical Name	Skin corrosion/irritation source information
Chlorotrimethylsilane	Based on the NITE GHS classification results.

**Serious eye damage/ irritation**

Chemical Name	Serious eye damage/irritation source information
Chlorotrimethylsilane	Based on the NITE GHS classification results.

**Respiratory or skin sensitization**

Chemical Name	Respiratory or Skin sensitization source information
Chlorotrimethylsilane	Based on the NITE GHS classification results.

**Reproductive cell mutagenicity**

Chemical Name	germ cell mutagenicity source information
Chlorotrimethylsilane	Based on the NITE GHS classification results.

**Carcinogenicity**

Chemical Name	Carcinogenicity source information
Chlorotrimethylsilane	Based on the NITE GHS classification results.

**Reproductive toxicity**

Chemical Name	Reproductive toxicity source information
Chlorotrimethylsilane	Based on the NITE GHS classification results.

**STOT-single exposure**

Chemical Name	STOT -single exposure- source information
Chlorotrimethylsilane	Based on the NITE GHS classification results.

**STOT-repeated exposure**

Chemical Name	STOT -repeated exposure- source information
Chlorotrimethylsilane	Based on the NITE GHS classification results.

**Aspiration hazard**

Chemical Name	Aspiration Hazard source information
Chlorotrimethylsilane	Based on the NITE GHS classification results.

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

no data available

**Persistence and degradability**

No information available

**Bioaccumulative potential**

No information available

**Mobility**

no data available

Chemical Name	Partition coefficient
Chlorotrimethylsilane 75-77-4	3

**Mobility in soil** No information available  
**Other Data** No information available

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

**Disposal of wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Precautionary including method of disposing contaminated packaging** Disposal should be in accordance with applicable regional, national and local laws and regulations.

### 14. TRANSPORT INFORMATION

#### DOT

**UN/ID No** UN1298  
**Proper shipping name:** Trimethylchlorosilane  
**UN classification** 3  
**Subsidiary hazard class** 8  
**Packing group** II  
**Marine pollutant** Not applicable

#### IATA

Cargo Aircraft only  
**UN/ID No** UN1298  
**Proper shipping name:** Trimethylchlorosilane  
**UN classification** 3  
**Subsidiary hazard class** 8  
**Packing group** II  
**Environmentally Hazardous Substance** Not applicable

#### IMDG

**UN/ID No** UN1298  
**Proper shipping name:** Trimethylchlorosilane  
**UN classification** 3  
**Subsidiary hazard class** 8  
**Packing group** II  
**Marine pollutant (Sea)** Not applicable

### 15. REGULATORY INFORMATION

#### 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

Chemical Name	CAS RN	Weight-%	SARA 313 - Threshold Values %
Chlorotrimethylsilane - 75-77-4	75-77-4	98.0	N/A

##### SARA 311/312 Hazard Categories

**Acute health hazard** Yes  
**Chronic Health Hazard** No

<b>Fire hazard</b>	Yes
<b>Sudden release of pressure hazard</b>	No
<b>Reactive Hazard</b>	No

**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, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Chlorotrimethylsilane 75-77-4	N/A	1000 lb	N/A

**US State Regulations****California Proposition 65**

This product does not contain any chemicals regulated by Proposition 65

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Chlorotrimethylsilane 75-77-4	X	X	X

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

<b>16. OTHER INFORMATION</b>
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Issue Date 02-Dec-2025

**Revision Note**

No information available

**Disclaimer**

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