

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Product Number: SC-5931
Chemical name: Trimethoxypropylsilane
CAS No.: 1067-25-0

Relevant identified uses of the substance or mixture and uses advised against

Industrial use only.

Details of the supplier of the safety data sheet

Manufactured/Supplied by Silsource Inc.
ADDRESS: 240 Mary Street, Port Perry, ON L9L 1B7

CHEMICAL EMERGENCY ONLY (PHONE): CANUTEC [24 Hr.] CANADA 888-226-8832 or 613-996-6666
CHEMTREC [24 Hr.] USA 1-800-262-8200

SECTION 2: HAZARD IDENTIFICATION

Physical hazards Flammable liquid Category3
Health hazards Skin corrosion/irritation Category2
Severe eye injury/irritation Category2
Environment hazard Not classified.
Label elements



Signal word Danger

Hazard statement

H226 Flammable liquid and vapour.
H315 Cause skin irritation
H319 Causing severe eye irritation

Precautionary statement

Preventive measures

P210 Keep away from heat/sparks/open flames/hot surfaces-No smoking.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P302+P352 IF ON SKIN: wash with plenty of soap and water.
P240 Ground/bond container and receiving equipment
P280 Wear protective gloves/protective clothing/eye protection/face protection

Reaction statement(s)

P301+P312 IF SWALLOWED: immediately call a POISON CENTER or doctor/physician.
P302+P352 IF ON SKIN: wash with plenty of soap and water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Risk warning

R10 Inflammable
R36/37/38 Irritates the eyes, respiratory system and skin

Safety warning

S26 If contact is made with eyes, rinse immediately with plenty of water and seek medical advice.
S36 Wear appropriate protective clothing.

Storage statement(s)

P405 Store locked up.

Waste disposal

P501 Dispose of contents/container in accordance with local regulation

Other effects

Chronic: No available data

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Mixtures

Chemical name	CAS number	%
Trimethoxypropylsilane	1067-25-0	≥ 97%
METHANOL 67-56-1 ≤3%	67-56-1	≤ 3%

SECTION 4: FIRST AID MEASURES

General information	Move the patient to a safe area, seek a doctor, and show the doctor this Safety Data Sheet.
If inhaled	If inhaled, move victim to fresh air, keep breathing clear, rest. Call the detoxification center/doctor immediately if you feel unwell.
If in contact with skin	Immediately remove/take off all contaminated clothing. Wash gently with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.
If in eyes	Rinse carefully with water for a few minutes. If convenient and easy to operate, remove contact lenses and continue cleaning. If eye irritation: Get medical advice/attention.
If swallowed by mistake	If you feel unwell, call a POISON CENTER/doctor. gargle.
Protection of emergency rescuer	Rescuers need to wear personal protective equipment, such as rubber gloves and air-tight goggles.

SECTION 5: FIRE-FIGHTING MEASURES

Flash point	Flash point of this compound is around 36°C (Test method:closed-cup), which belongs to flammable liquid.
Suitable extinguishing media	The use of dry powder or foam is recommended in large fires, carbon dioxide, dry powder or sands are recommended in small fires. Water can be used to cool fire-affected containers.
Specific hazards during fire fighting	By heating and fire, harmful vapors/gases may be formed
Special method	Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.
Special protective equipment for fire fighter	The fire fighter should wear the personal protective gears when covering flame.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Wear personal protection equipment; Prevent inhalation of vapors, mist or gas; Ensure adequate ventilation.
Environmental precautions	Prevent further leakage or spillage if safe to do so; Prevent the product to enter drains; Discharge into the environment must be avoided.
Methods and materials for restraining and cleaning up the spills	Absorb with inert adsorbent and dispose as hazardous waste; Pump up into suitable containers

SECTION 7: HANDLING AND STORAGE

Handling precautions	Handling in well-ventilated place; The flammable methanol will be produced by exposing to water or moist atmosphere while using; In the process of using, the exposure to methanol must be controlled, and ventilation must be provided by using ventilated or self-contained breathing apparatus; Avoid to get into eyes; Avoid skin contact; Avoid inhalation of vapour, mist, dust or smoke; Keep container sealed; Do not take orally; Remove contaminated clothing immediately;
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Develop good industrial hygiene habits, and must be washed before eating, drinking or smoking;
Take fire protection measure

Storage precautions

Store in a cool place;
Keep container tightly closed in a dry and well-ventilated place;
Containers which are opened must be carefully resealed and kept upright to prevent leakage.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits

Ingredient Name	CAS NO.	Exposure Limits
Trimethoxypropylsilane	1067-25-0	See methanol term
METHANOL	67-56-1	CHINA: TWA 25 mg/m3. STEL 50 mg/m3. Can be absorbed through the skin OSHA PEL (final rule): TWA 200 ppm, 260 mg/m3 ACGIH TLV-skin: TWA 200ppm, STEL 250 ppm.

Exposure in the work place limited and controlled

Workspaces are recommended to be separated from other workspaces.
Closed operation to prevent leakage.
Enhance ventilation.
Set up automatic alarm device and emergency ventilation facilities.
Set up emergency evacuation channels and necessary drainage areas.
Set up red area warning line, warning mark and Chinese warning description, and set up communication alarm system.
Safety shower and eye washing facilities are available.

Personal protection

Respiratory protection: gas mask. According to local and government regulations;
Hand protection: protective gloves;
Eye protection: Safety goggles. If in need, wear a mask;
Skin and body protection: Protective clothing. If in need, wear protective boots.

Environmental protection

Local ventilation Recommended
Conventional ventilation Recommended

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state/form	Liquid
Color	Colorless to transparent
PH value	No data available
Boiling point	142°C at 760mmHg
Melting point	No data available
Flash point	36°C(test method:closed-cup)
Ignition temperature	No data available
Oxidizing properties	No data available
Up explosive limit	No data available
Lower explosive limit	No data available
Vapour pressure	0.15psi (20°C)
Vapour density	No data available
Density/Relative density	0.932g/ml
Solubility	React with water
Heat of combustion	No data available
Viscosity(dynamic)	No data available

SECTION 10: STABILITY AND REACTIVITY

General Information If stored and handled in accordance with standard industrial practices, no hazardous reactions are known.
Chemical stability: Moisture sensitive.

Reactivity Conditions to avoid contact: incompatible materials, fire sources, excess heat, exposure to humid air.
Dangerous decomposition products: carbon oxides and incomplete combustion of carbon compounds, formaldehyde, silica.
Dangerous polymerization: In the encounter of water, strong acid, heat, polymerization may occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Route of infection: Inhalation, skin contact and accidental ingestion.

Signs and symptoms of overexposure:

Harmful if inhaled;
Harmful if swallowed;
Cause serious eyes damage;
May cause an allergic skin reaction;

Acute toxicity:

Chemical Name	CAS NO.	Semi-lethal dose LD50 (oral)	Semi-lethal dose LD50 (skin)	LC50 (Inhalation)
Trimethoxypropylsilane	1067-25-0	12.3ml/kg (mouse)	> 9,500 mg/kg (rabbit)	> 42.1 mg/l (mouse; 6 hours)

Potential health hazards

Inhalation Harmful if inhaled, may cause respiratory irritation;
Ingestion Harmful if swallowed;
Skin Harmful if absorbed through skin, repeated skin contact may cause skin irritation;
Eye Cause eye irritation.

Chronic toxicity: Toxicity of organic silicon compound is generally low.

Other health hazard information:

This material may be liberated from methanol in contact with moisture or damp air. Excessive methanol can cause blindness and neurological effects.

SECTION 12: ECOLOGICAL INFORMATION

Ecological toxicity:

Fish No data available

Water louse and other invertebrates

No data available

Algae No data available

Residual/Degradability This product hydrolyzes in water or moist air, releasing methanol and silicone compounds

Potential bio-accumulation(BCF):

No data available

Mobility in soil: No data available

Additional environmental information

Environmental damage cannot be ruled out even after professional treatment or disposal.

SECTION 13: DISPOSAL CONSIDERATIONS

Product disposal: Dispose in accordance with local regulations.

Packaging disposal: Dispose in accordance with local regulations.

SECTION 14: TRANSPORT INFORMATION

UN No.: UN1993

DG Class: 3

Packing Group: III

Proper Shipping Name: Flammable liquids, n.o.s. (n-Propyltrimethoxysilane)

Technical Name: N-PROPYLTRIMETHOXYSILANE

SECTION 15: REGULATORY INFORMATION

National and local regulations must be observed. For information on labeling, please refer to section 2 of this document. The Regulations for the Safe Administration of Hazardous Chemicals in the

Workplace(issued by Council of the PRC on February 16, 2011): Relevant provisions are made for the safe use, production, storage, transportation, loading and unloading of hazardous chemicals.

SECTION 16: OTHER INFORMATION

This data is offered in good faith as typical values and not as a product specification. No warranty, either expressed or implied, is made.

The recommended handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific content of the intended use.

This SDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. Products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.

This SDS is compliant with the GHS requirements outlined at
http://www.ccohs.ca/oshanswers/chemicals/whmis_ghs/sds.html

Date Updated: 11/SEP/2024

Version: 1.0