

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION
Product identifier

Product Number: SC-5932
 Chemical name: N-propyltriethoxysilane
 CAS No.: 2550-02-9

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

For industrial use, intermediate in the synthesis of organic compounds

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
GHS Classification
Physical hazards

Flammable liquid Category 2

Health hazard

Skin corrosion/irritation Category 2

Severe eye injury/ eye irritation Category 2B

Environment hazards: not classified

Label elements

Signal word

Danger

Hazard statements

Flammable liquid and vapour.
 Causes eye irritation.
 Causes skin irritation.

Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. No smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. IF ON SKIN: wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Risk warnings

R10 Inflammable
 R36/37/38: Irritating to eyes, respiratory system and skin

Safety warnings

S26 If contact with eyes rinse immediately with plenty of water and seek medical advice
 S36 Wear suitable protective clothing

Safe Storage(s)

P405 Store locked up.

Waste disposal

P501 Dispose of contents/container in accordance with local regulation.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS
Substances

Chemical name	CAS number	Concentration
N-propyltriethoxysilane	2550-02-9	≥97.0%
Ethanol	64-17-5	≤3%

SECTION 4: FIRST AID MEASURES

General information	Remove the victim to a safe area, seek for a doctor and present the doctor this Safety Data Sheet.
If inhaled	Remove the victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center/doctor if you feel unwell.
If skin contact	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 cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation: get medical advice/attention.
If swallowed	If you feel unwell, get medical advice/attention. 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	The flash point of compound is around 57°C(Closed cup method) , flammable liquid.
Suitable extinguishing media	Use extinguishing powder or alcohol-resistant foam on huge fires, carbon dioxide, extinguishing powder and sand on small fires. Water can be used to cool the fire-effected containers.
Specific hazards during fire fighting	Be careful. Toxic fume may decompose during burning or at high temperatures.
Special method	Decide whether to evacuate or isolate the area based on local emergency plans. Keep cool by spraying water on containers exposed to the fire.
Special protective equipment for firemen	Always wear personal protective equipment when fighting fires.

SECTION 6: ACCIDENTAL RELEASE MEASURES

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

SECTION 7: HANDLING AND STORAGE

Precautions for operation and disposal	Process in well-ventilated areas. When using the product, contact with water or moist air generates flammable ethanol. Do not into the eyes. Avoid contact with skin. Avoid breathing in steam, mist, dust or smoke. Keep container sealed. Do not to be taken orally. Remove contaminated clothing immediately. Develop good industrial hygiene habits, must clean before eating, drinking or smoking. Take fire precautions.
Precautions for storage	Store in a cool place, keep containers tightly closed in a dry, cool and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Maximum allowable concentration

Component	CAS number	Maximum allowable concentration
N-propyltriethoxysilane	2550-02-9	-

Exposure in the work place limited and controlled

Workplaces are recommended to be separated from other workplaces. Closed operation and prevent leakage. Ventilation should be strengthened. Set up autoalarm and emergency ventilation facilities. Set up emergency escape route and needful vent risk areas. Set up the

red line, warning mark and warning message in Chinese, as well as the communication and alarm equipment. Provide safety showers and eyewash stations.

Personal protection

Respiratory protection: Must wear gas defence mask, according to local and government regulations
Hand protection: Wear protective gloves
Eye protection: Wear safety goggles, wear mask if necessary.
Skin and body protection: Wear protective suit, wear protective boots if necessary.

Exposure to the environment limited and controlled

Local Ventilation: Recommended
Conventional Ventilation: Recommended

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state/form Liquid
Color Colorless
pH No data available
Boiling point 180°C at 760mmHg
Melting point No data available
Flash point 57°C (closed cup method)
Ignition point No data available
Oxidizing properties No
Upper explosion limit No data available
Lower explosion limit No data available
Vapor pressure No data available
Vapor density No data available
Density/relative density 0.891g/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: Incompatible materials, source of ignition, excess heat, exposure to moist air.
Hazardous Decomposition Products: Carbon oxides and incomplete burned carbon compounds, formaldehyde, silica
Hazardous polymerization: Hazardous polymerization will occur in the encounter of water, strong acid, heat.

SECTION 11: TOXICOLOGICAL INFORMATION

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

Signs and Symptoms of Overexposure:

Harmful if inhaled. Maybe harmful if swallowed. Cause serious eye damage. May cause an allergic skin reaction.

Acute Toxicity:

Chemical Name	CAS number	LD50 (Oral)	LD50 (Dermal)	LC50 (Inhalation)
N-propyltriethoxysilane	2550-02-9	-	-	-

Potential health effects

Inhalation May be harmful by inhalation. May cause respiratory irritation.
Ingestion Harmful if swallowed.
Skin May be harmful if absorbed through skin. Causes skin irritation.
Eyes Causes serious eye irritation.

Chronic Toxicity The toxicity of organic silicon compound is normally low.

Other health hazard information This material may liberate methanol upon exposure to moisture or humid air. Overexposure to methanol can result in blindness and nervous system effects.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Fish: no data available

Water louse and other aquatic invertebrates: no data available

Algae: no data available

Residual/degradability: This product hydrolyses in water or moist air, releasing ethanol and organosilicons compounds .

Bioaccumulative potential: No data available

Mobility in Soil: no data available

Additional Environmental Information:

The environmental hazard can not be excluded even after special treatment or disposal.

SECTION 13: DISPOSAL CONSIDERATIONS

Product disposal: Dispose of in accordance with local regulations.

Packaging disposal: Dispose of in accordance with local regulations.

SECTION 14: TRANSPORT INFORMATION

Class	3
Packing group	III
UN-Number	1993
Proper Shipping Name	Flammable liquid,n.o.s.
Technical name	N-PROPYLTRIETHOXSILANE

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 context of the intended use.

This SDS was prepared sincerely on the basis of the information we could obtain, 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: 17/APR/2025

Version: 1.0