SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

Product Number: PROSILANE™ SC-4600
Chemical name: 3-Acryloxypropyltrimethoxysilane
CAS No.: 4369-14-6

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

For industrial use

1.3 Details of the supplier of the safety data sheet

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

1.4 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

2.1 GHS Classification

Acute toxicity, inhalation (Category 4)
Skin corrosion/irritation (Category 1B)
Skin sensitizers (Category 1)
Hazards to the aquatic environment - long-term hazards (Category 3)

2.2 Label elements

Signal word Danger

Hazard statements

H314 Causes severe skin burns and eye damage.
H317 May cause allergic skin reactions
H332 Harmful if inhaled.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapor/spray.
P273 Avoid release into the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Incident response

P305 + P351 + P338 IF IN EYES: Rinse carefully with water for several minutes. If you wear contact lenses and can easily remove them, remove them. Continue rinsing.
P310 Call a poison center or doctor immediately.

Risk warning words

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

Safety warnings

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28 After contact with skin, wash immediately with plenty of soap and water.

2.3 Other effects

Chronic: no data available

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Chemical name	CAS number	Concentration
3-Acryloxypropyltrimethoxysilane	4369-14-6	≥98.0%
Chloropropyl trimethoxysilane	2530-87-2	≤2.0%

SECTION 4: FIRST AID MEASURES

4.1 General information

Move patient to a safe area, seek medical advice, and show this safety data sheet to the doctor.

4.2 After inhalation

Move victim to fresh air, keep breathing clear, and rest. If you feel unwell call a poison center/doctor immediately.

4.3 After contact with the skin

Remove/take off all contaminated clothing immediately. Wash gently with plenty of soap and water.
If skin irritation or rash occurs: Get medical advice/attention.

4.4 After contact with the eyes

Wash carefully with water for a few minutes. If convenient and easy to operate, remove contact lenses. Continue cleaning.
If eye irritation: Get medical advice/attention.

4.5 After swallowing

If you feel unwell, seek medical advice/attention, gargle.

4.6 Advice for the physician

Rescuers are required to wear personal protective clothing, such as rubber gloves and airtight goggles.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

Use dry powder or foam on large fires, and use carbon dioxide, dry powder, and sand on small fires.
Water can be used to cool fire-affected containers.

5.2 Specific hazards

Be careful, it may decompose when burned or exposed to high temperatures to produce toxic fumes.

5.3 Special protective gear for firefighters

When fighting a fire, always wear personal protective equipment.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Precautions for personnel, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, aerosols or gases. Ensure adequate ventilation.

6.2 Environmental precautions

Under safe conditions, take measures to prevent further leaks or spills. Do not allow product to enter drains. Prevent emissions to the surrounding environment.

6.3 Methods and materials for containment and removal of spillage.

Small leaks: Collect leaking liquid in a sealable container if possible. Absorb with sand, activated carbon or other inert materials and transfer to a safe place. It is prohibited to flush into the sewer. Large leakage: Build dikes or dig pits to contain the leakage. Seal drain pipes. Cover with foam to inhibit evaporation. Use an explosion-proof pump to transfer it to a tanker or a special collector, and recycle or transport it to a waste treatment site for disposal.

6.4 Supplementary information

Eliminate all sources of ignition

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

It is best to use it in a ventilated place.
During use, ethanol exposure must be controlled, and ventilation must be provided using supplied-air or self-contained breathing apparatus.
Keep out of eyes.
Avoid skin contact.
Avoid breathing vapors, mist, dust or fumes. Keep container tightly sealed.
Do not take internally.
Take off contaminated clothing immediately.
Develop good industrial hygiene habits and wash before eating, drinking or smoking.
Take fire protection measures.

7.2 Storage

Store in a cool place.
Keep the container tightly closed and store in a dry and ventilated place.

Opened containers must be carefully resealed and kept in an upright position to prevent leakage.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Explosion limits

Values excluding any substances and occupational exposure limits.

8.2 Engineering control

It is recommended that the workplace be separated from other workplaces;
Sealed operation to prevent leakage.
Improve ventilation.
Set up automatic alarm devices and emergency ventilation facilities.
Set up emergency evacuation passages and necessary hazard relief areas.
Set red area warning lines, warning signs and Chinese warning instructions, and set up a communication alarm system.
Safety showers and eyewash facilities are provided.

8.3 Personal protection

Respiratory protection: Gas mask. Subject to local and government regulations.
Hand protection: Protective gloves.
Eye protection: Safety glasses. Wear a mask if the situation requires it.
Skin and body protection: Protective clothing. Wear protective boots if the situation requires it.

8.4 Environmental protection

Local Ventilation:	Recommend
General Ventilation:	Recommend

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 General information

Physical state/form	Liquid
Colour	Colorless transparent to light yellow
pH	No data available
Boiling point	68℃ at 0.5hPa-lit
Melting point	No data available
Flash point	123℃(tag closed cup)
Ignition temperature	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	1.055g/ml at 25℃
Solubility	Hardly soluble in water
Heat of combustion	No data available
Viscosity	No data available

9.2 Other information

Hydrolysis reaction occurs

SECTION 10: STABILITY AND REACTIVITY

10.1 General information Store and handle in accordance with normal industrial practices in the absence of harmful reactions.
Generally stable.

10.2 Chemical stability: Humidity sensitive

10.3 Reactive

Conditions to avoid: Incompatible materials, sources of ignition, excess heat, exposure to moist air.
Hazardous decomposition products:
Carbon oxides and incompletely burned carbon compounds, methanol, titanium dioxide.
Hazardous polymerization: Polymerization may occur when exposed to water, strong acids, or heat.

SECTION 11: TOXICOLOGICAL INFORMATION

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

11.2 Signs and symptoms of overexposure:

Harmful if inhaled. May be harmful if swallowed. Cause serious eye damage. May cause skin irritation. May cause allergic skin reaction.

11.3 Acute toxicity: No data available

Potential health effects

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

11.4 Chronic toxicity

Silicone compounds generally have low toxicity.

11.5 Other health hazard information

This material may release methanol when exposed to moisture or humid air.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Ecotoxicity: No data available

12.2 Residual / degradability:

This product hydrolyzes in water or humid air, releasing ethanol and organic silicon compounds.

12.3 Bioaccumulative potential (BCF):

No data available

12.4 Mobility in Soil: No data available

12.5 Additional Environmental Information:

Even in the case of professional handling or disposal, environmental hazards cannot be excluded.

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

14.1 UN number 1760

14.2 UN proper shipping name

ADR/RID	Corrosive liquid, n.o.s
IMDG/IMO	Corrosive liquid, n.o.s
ICAO/IATA	Corrosive liquid, n.o.s

14.3 Transport hazard class(es)

ADR/RID 8:	Corrosive
IMDG/IMO 8:	Corrosive
ICAO/IATA 8:	Corrosive

14.4 Packaging group

ADR/RID	III
IMDG/IMO	III
ICAO/IATA	III

14.5 Environmental hazards

Marine pollutant	-
Special precautions for user	No data available

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No.1907/2006

Not listed

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

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: 1/MAY/2025
Version: 1.0