SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

Product Number: PROSILANE™ SC-2520
Chemical name: 3-Ureidopropyltriethoxysilane
CAS No.: 23779-32-0

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

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

Classification of the substance or mixture
Classification according to (REGULATION (EC) No 1272/2008)[CLP]

Flammable liquids	Category 2
Serious eye damage/eye irritation	Category 2
Reproductive toxicity	Category 1B

Specific target organ toxicity - Single exposure
Category 1 Central nervous system
Specific target organ toxicity - Single exposure
Category 3 Respiratory tract irritation, Narcotic effects
Specific target organ toxicity - Repeated exposure
Category 1 Visual system, Central nervous system
GHS Label elements
GHS Label elements
Labeling as per (EU) 1272/2008)
Statutory basis **EU-CLP as per Regulation (EU) No.1272/2008**
Pictogram

Signal word: Danger
Hazard statement(s)

H225	Highly flammable liquid and vapor.
H319	Causes serious eye irritation.
H360FD	May damage fertility. May damage the unborn child.
H370	Causes damage to organs: Central nervous system
H372	Causes damage to organs through prolonged or repeated exposure: Visual system Central nervous system
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.

Precautionary statement(s)

P260	Do not breathe mist, vapors or spray.
P280	Wear protective gloves, protective clothing, face protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304+P340+P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.
P305+P351+P338+P337+P313	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.
P308+P311	If exposed or concerned: Call a POISON CENTER or doctor.

Other hazards

Results of PBT and vPvB assessment
PBT: Not applicable
vPvB: Not applicable

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Synonyms:
3-Ureidopropyltriethoxysilane (40-52% in Methanol), Triethoxy-3-ureidopropylsilane (40-52% in Methanol)

Chemical name	CAS number	Concentration
1-[3-(Triethoxysilyl)propyl]urea (40-52% in Methanol)	23779-32-0	40-52%

3.2 Hazardous ingredient(s): 1-[3-(Triethoxysilyl)propyl]urea (40-52%) 23779-32-0
Methanol (48-60%) 67-56-1

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures
General information
Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled
Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician.
If skin contact
Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Call a POISON CENTER or doctor/physician.
If in eyes
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Call a POISON CENTER or doctor/physician.
If swallowed
Call a POISON CENTER or doctor/physician. Rinse mouth.

4.2 Most important symptoms and effects, both acute and delayed
Acute: Dizziness. Redness. Drowsiness.
Delayed: May have effects on the respiratory tract.

4.3 Indication of any immediate medical attention and special treatment needed
Not data available.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media
Suitable extinguishing media:
Dry chemical, foam, water spray, carbon dioxide.

5.2 Specific hazards during fire fighting:
Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.

5.3 Hazardous combustion products:
These products include: Carbon oxides Nitrogen oxides Silicates

5.4 Other specific hazards:
Closed containers may explode from heat of a fire.

5.5 Advice for firefighters
Wear self-contained breathing apparatus if possible.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use extra personal protective equipment (self-contained breathing apparatus). Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.

6.2 Environmental preventive measures
Prevent product from entering drains.

6.3 Methods and materials for restraining and cleaning up the spills

Absorb spilled material in dry sand or inert absorbent before recovering it into an airtight container. In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

6.4 Prevention of secondary hazards:

Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use spark-proof tools and explosion-proof equipment.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for operation and disposal

Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent generation of vapor or mist. Keep away from heat/sparks/open flame/hot surfaces. No smoking. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Wash hands and face thoroughly after handling.
Use a closed system if possible. Use a ventilation, local exhaust if vapor or aerosol will be generated. Avoid all contact!

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store in a cool, dark and well-ventilated place. Store under inert gas. Protect from moisture. Store locked up.
Store away from incompatible materials such as oxidizing agents. Moisture-sensitive

7.3 Packaging material:

Comply with laws.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure limits:

Component	CAS number	Maximum allowable concentration
(Methanol)	67-56-1	ACGIH TLV(TWA):200 ppm (skin)
		ACGIH TLV(STEL):250 ppm (skin)
		OSHA PEL(TWA):200 ppm

8.2 Exposure controls

Appropriate engineering controls

Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed system or local exhaust. Also install safety shower and eye bath.

Personal protection

Respiratory protection:

Half or full facepiece respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.

Hand protection:

Impervious gloves.

Eye protection:

Safety goggles. A face-shield, if the situation requires.

Skin and body protection:

Impervious protective clothing. Protective boots, if the situation requires.

8.2 Control of environmental exposure

Do not let product enter drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

Form	liquid
Colour	colourless
Odour	no data available
Odour Threshold	no data available
Melting point/freezing point	no data available (Methanol) -98°C
Initial boiling point and boiling range	no data available (Methanol) 64°C
Decomposition temperature	no data available

Relative density	1,17 g/cm^3 at 25°C
Kinematic viscosity	no data available
Log Pow	no data available
	(Methanol) -0.82/-0.66
Flash point	14°C (57°F)
Flammability (solid, gas)	no data available
Soluble	Alcohols
pH	no data available
Vapor pressure	no data available
Vapor density	no data available
Dynamic Viscosity	no data available
Evaporation rate (Butyl Acetate=1)	no data available
Autoignition temperature	470°C (878°F) Flammability or explosive limits
Lower	No data available
Upper	No data available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity
no data available
10.2 Chemical stability:
Stable under proper conditions.
10.3 Possibility of hazardous reactions
No special reactivity has been reported.
10.4 Conditions to avoid:
Spark, Open flame, Static discharge
10.5 Incompatible materials
Oxidizing agents
10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions:
Carbon oxides, Nitrogen oxides (NOx), Silicon oxides
Other decomposition products: No data available
In the event of fire: see section 5

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity	no data available
Skin corrosion/irritation	no data available
Serious eye damage/eye irritation	no data available
Respiratory or skin sensitization	no data available
Germ cell mutagenicity	no data available
11.2 Carcinogenicity	no data available

Reproductive toxicity
no data available
11.3 Target organ(s)
Causes damage to: Visual System, Central Nervous System
May cause respiratory irritation.
May cause drowsiness or dizziness.
Causes damage to organs through prolonged or repeated exposure: Visual System, Central Nervous System

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity
No data available
12.2 Persistence and degradability
no data available
Bioaccumulative potential
no data available
Mobility in soil

no data available

12.3 Results of PBT and vPvB assessment

no data available

Other adverse effects

no data available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Product disposal:

Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not be allowed to enter the environment, drains, water ways, or the soil.

13.2 Packaging disposal:

Dispose of as unused product. Do not re-use empty containers.

13.3 Other considerations

Observe all federal, state and local regulations when disposing of the substance.

SECTION 14: TRANSPORT INFORMATION

14.1 UN-Number

1993

14.2 UN Proper Shipping Name

FLAMMABLE LIQUID, N.O.S.

14.3 Transport hazard class(es)

3

14.4 Packaging group

II

14.5 Environmental hazards

IMDG Marine pollutant: no

14.6 Special precautions for user

No data available

SECTION 15: REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.):

This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

US Federal Regulations

CERCLA Hazardous substance and Reportable Quantity: SARA 313: Not Listed

SARA 302: Not Listed

State Regulations

State Right-to-Know

Massachusetts	Not Listed
New Jersey	Not Listed
Pennsylvania	Not Listed
California Proposition 65:	Not Listed

Other Information

NFPA Rating:	HMIS Classification:
Health: 3	Health: 3
Flammability: 3	Flammability: 3
Instability: 0	Physical: 0

International Inventories

Canada: DSL On DSL

EC-No: 245-876-7

SECTION 16: OTHER INFORMATION

NFPA DIAMOND:

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

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