

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

Product Number: PROSILANE™ SC-2510
Chemical name: 3-Ureidopropyltrimethoxysilane
CAS No.: 23843-64-3

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]

Skin Sensitization Category 2 H315

Serious eye damage Category 1 H318

Specific target organ toxicity - single exposure
Category 3 H335

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: H315 - May cause skin irritation.
H318 - Causes serious eye damage.
H335 - May cause respiratory irritation.

Precautionary statement:

Prevention: P261 - Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P280 - Wear protective gloves/protective clothing/eye protection.

Reaction: P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.

Disposal: dispose in accordance with local regulation.

Other hazards

A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Chemical name	CAS number	Concentration
3-Ureidopropyltrimethoxysilane	245-904-8	≤ 100%

Skin Sensitization Category 2 H315
Serious eye damage Category 1 H318
STOT Sensitization Category 3 H335

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Take off all contaminated clothing immediately.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

If skin contact

Wash off immediately with plenty of water.

Consult a doctor in the event of permanent skin irritation.

If in eyes

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Protect unharmed eye.

Call ambulance. (Cue: caustic burn of the eyes)

Immediate further treatment in eye clinic/by eye doctor. Continue rinsing eye until arrival at ophthalmic hospital.

If ingested

Have the mouth rinsed with water.

Only when patient fully conscious: Have patient drink plenty of water in small sips.

Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labeling (see section 2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Water spray, foam, Carbon Dioxide (CO₂), dry powder

Unsuitable extinguishing media: High volume water jet

5.2 Specific hazards during fire fighting

Carbon oxides, Nitrogen oxides (NO_x), silicon oxides

5.3 Advice for firefighters

Water used to extinguish fire should not enter drainage systems, soil or stretches of water. Ensure there are sufficient retaining facilities for water used to extinguish fire.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

5.4 Special protective equipment for firefighters

In case of fire: wear a self-contained respiratory apparatus

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

6.2 Environmental preventive measures

Do not allow entrance in sewage water, soil stretches of water, groundwater, and drainage systems.

6.3 Methods and materials for containment and cleaning up the spills

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Fill into marked, sealable containers.

To be disposed of in compliance with existing regulations.

6.4 Reference to other sections

Wear personal protective equipment; see section 8.

Disposal considerations; see section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

7.2 Conditions for safe storage, including any incompatibilities

Handle and store under inert gas.

Storage class (TRGS 510): Combustible liquids not in Storage Class 3

Advice on protection against fire and explosion

Normal measures for preventive fire protection.

7.3 Storage:

Store in 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. Protect from moisture.

7.4 Specific end use(s)

No further information available Applications; see Section 1.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

8.2 Personal protective equipment

Eye/face protection

Tightly fitting safety goggles. Face shield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection

Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineered protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

8.3 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	Amber clear
Physical state	liquid
Odor:	not determined
Odor Threshold:	not determined
pH	not determined
Melting point/range	not determined
Boiling point/range	217 - 250°C - lit.
Flash point	99°C - closed cup
Evaporation rate	not determined
Lower explosion limit	not determined
Upper explosion limit	not determined
Vapour pressure	1 hPa at 20°C
Density	1.15 g/mL at 25°C
Water solubility:	not determined
Partition coefficient: n-octanol/water	log Pow: -1.852
Auto inflammability	not determined
Viscosity, dynamic	not determined
Refractive Index	1.386 [25°C]
Purity	Min.98.5% by GC

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability:

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid:

No data available

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions: Carbon oxides, Nitrogen oxides (NO_x), 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 irritation	No data available
Eye irritation	No data available
Assessment of STOT single exposure	No data available
Assessment of STOT repeat exposure	No data available
Risk of aspiration toxicity	No data available
Gentotoxicity in vitro	No data available
Toxicity to reproduction	No data available

11.2 Carcinogenicity

IARC: No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

11.3 Specific target organ toxicity - single exposure

Inhalation: May cause respiratory irritation.

11.4 Specific target organ toxicity - repeated exposure

No data available	
Aspiration hazard	No data available

Additional Information

No data available

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

No eco-toxicological data is available for this product.

12.2 Persistence and degradability

Biodegradability	No data available
Bio-accumulative potential	
Bioaccumulation	No data available
Mobility in soil	
Mobility	No data available

12.3 Results of PBT and vPvB assessment

A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

12.4 Other adverse effects

Further information	Toxic to aquatic life with long lasting effects.
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SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Product disposal:

With respect to local regulations, e.g. dispose of to suitable waste incineration plant.

13.2 Packaging disposal:

Do not reuse empty containers and dispose of in accordance with the regulations issued by the appropriate local authorities.

If there is product residue in the emptied container, follow directions for handling on the container's label. Incorrect disposal or reuse of this container is illegal and can be dangerous.

Other countries: observe the national regulations.

13.3 Waste Key Number

No waste key number as per the European Waste Types List can be assigned to this product, since such classification is based on the (as yet undetermined) use to which the product is put by the consumer.

The waste key number must be determined as per the European Waste Types List (decision on EU Waste Types List 2000/532/EC) in cooperation with the disposal firm / producing firm / official authority.

SECTION 14: TRANSPORT INFORMATION**14.1 UN-Number**

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14.2 UN Proper Shipping Name

Not dangerous goods

14.3 Transport hazard class(es)

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14.4 Packaging group

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14.5 Environmental hazards

IMDG Marine pollutant: no

14.6 Special precautions for user

No data available

SECTION 15: REGULATORY INFORMATION**Safety, health and environmental regulations/legislation specific for the substance or mixture****National legislation**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Chemical safety assessment

No substance-related safety assessment is necessary / has been conducted for this product.

SECTION 16: OTHER INFORMATION**Relevant H phrases from chapter 3**

H315 Causes skin irritation.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

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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