SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

Product Number:	PROSILANE™ SC-5424
Chemical name:	ETHYLPOLYSILICATE 40
CAS No.:	68412-37-3 & 11099-06-2

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

Industrial, chemical intermediates

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

Physical hazards	
Flammable liquid	Category 3
Health hazard	
Skin corrosion/irritation	Category 2
Severe eye damage/irritation	Category 2A
Acute toxicite, oral	Category 4
Specific target organ toxicity-one time exposure	Category 3 Respiratory irritation
Environment hazards:	
No dat available	

2.2 GHS Label elements

Pictogram	
Signal Words	Warning
Hazard statement(s)	
H226	Flammable liquids and vapors
H315	Cause skin irritation
H319	Cause severe eye irritation
H332	Harmful by inhalation
H335	May cause respiratory irritation
Precautionary statement(s)	
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking
P233	keep container tightly closed
P240	The container and the receiving device are earthed/equipotential connected
P241	Use explosion-proof electrical/ventilation/lighting equipment
P242	Only use tools that do not generate sparks
P243	Take measures to prevent electrostatic discharge
P261	Avoid inhalation of dust/smoke/gas/smoke/steam/spray
P264	Clean skin thoroughly after operation
P271	Use only outdoors or in a well-ventilated place
P280	Wear protective gloves/suits/eye masks/masks
P303 + P361 + P353	In case of skin (or hair) contamination: remove/remove all contaminated clothing immediately. Wash your skin/shower with water
P304 + P340	If inhaled: Move client to fresh air for rest and maintain comfortable breathing position
P305 + P351 + P338	If it enters the eye: rinse with water carefully for a few minutes. If you wear contact lenses and remove them easily, remove the lenses and continue rinsing
P312	If you feel unwell, call the detoxification center or your doctor for help
P321	Specific treatment (see first aid instructions on this label)
P332 + P313	If skin irritation occurs: seek medical advice/attention。
P337 + P313	If eye irritation persists: seek medical advice/attention。

P362	Remove contaminated clothing and wash before reuse。
P370 + P378	In case of fire: use dry sand, dry chemicals or alcohol-resistant foam to put out the fire

2.3 Other hazards

Chronic	No data available

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Chemical name	CAS number	Concentration
Polyethyl silicate	11099-06-2	95%
Ethanol	64-17-5	5%

SECTION 4: FIRST AID MEASURES

Description of first aid measures

4.1 General information
Take persons to a safe place. Observe self-protection for first aid

4.2 If inhaled
Move the exposed person to fresh air at once. Keep the patient calm. Protect against loss of body heat. If breathing stops, administer artificial respiration. Seek medical advice immediately and clearly identify substance

4.3 If skin contact
Remove contaminated clothes at once. Wash off with plenty of water or water and soap immediately. In serious cases, use emergency shower immediately. Seek medical advice immediately and clearly identify substance

4.4 If in eyes
Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 15-30min while holding the eyelid(s) open. If contact lens is present, DO NOT delays irrigation or attempt to remove the lens. Seek medical advice immediately and clearly identify substance. Continue to bathe eyes during transport to medical practitioner

4.5 If swallowed
If conscious, give several small portions of water to drink. Do not induce vomiting. Seek medical advice immediately and clearly identify substance

4.6 Protection of emergency rescuer
Rescuers are required to wear personal protective equipment such as rubber gloves and airtight goggles

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Flash point
The flash point of the compound is about 37℃ (closed-mouth cup method).

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

5.3 Particular hazard
Be careful. Toxic fumes may decompose during burning or at high temperatures.

5.4 Special method
Determine whether the area needs to be evacuated or quarantined according to the local emergency plan. A container exposed to a fire is kept cool by spraying water

5.5 Special protective equipment for firemen
Always wear personal protective equipment when fighting a fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Prevent inhalation of steam, aerosol, or gas. Ensure adequate ventilation

6.2 Environmental preventive measures
Take steps to prevent further leaks or spills under conditions that ensure safety. Don't let the product go down the drain.Prevent emissions into the surrounding environment.

6.3 Methods and materials for restraining and cleaning up the spills
Absorbed with inert adsorbent and treated as hazardous waste. Store in a suitable enclosed processing container

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for operation and disposal

Use with adequate ventilation. Product evolves flammable methyl alcohol when exposed to water or humid air. Provide ventilation during use to control methyl alcohol exposures within exposure guidelines or use air-supplied or self-contained breathing apparatus. Do not get in eyes. Avoid skin contact. Avoid breathing vapor, mist, dust, or fumes. Keep container closed. Do not take internally. Remove contaminated clothing immediately. Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking

7.2 Precautions against fire and explosion

Normal measures for preventive fire protection.

7.3 Precautions for storage

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. Moisture sensitive.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Maximum allowable concentration

Component	CAS number	Maximum allowable concentration
Polyethyl silicate	11099-06-2	ACGIH TLV(TWA): 10 ppm OSHA PEL(TWA): 100 ppm

8.2 Exposure controls

Exposure in the work place limited and controlled

Personal protection

Respiratory protection:	Gas mask. According to local and government regulations
Hand protection:	Protective gloves
Eye protection:	Safety goggles. Wear a mask if necessary
Skin and body protection:	Protective suit. Wear protective boots if necessaryxxx

Environmental protection

Local Ventilation:	Recommended
Conventional Ventilation:	Recommended

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state/form	Liquid
Color	Colorless and transparent
pH	No data
Boiling point	No data
Melting point	No data
Flash point	37℃(Closed cup)
Molecular weight	No data
Ignition temperature	No data
Oxidizing properties	No data
Upper explosion limit	No data
Lower explosion limit	No data
Vapor pressure	No data
Vapor density	No data
Specific gravity	1.05g/cm3(20℃)
Solubility	React with water
Heat of combustion	No data
Viscosity（20℃）	About 5mPa·s (25℃)

SECTION 10: STABILITY AND REACTIVITY

10.1 General information

If stored and handled in accordance with standard industrial practices no hazardous reactions are known

10.2 Chemical stability:

Moisture sensitive

10.3 Reactivity

Conditions to avoid:

Incompatible materials, ignition sources, excess heat, exposure to moist air

Hazardous Decomposition Products:

Carbon oxides and traces of incompletely burned carbon compounds. Sulfur compounds. Silicon dioxide

Hazardous polymerization:

Hazardous polymerization may occur

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Route of Exposure:

Inhalation, skin contact and ingestion

11.2 Signs and Symptoms of Overexposure:

If inhaled harmful. May be harmful if swallowed. Cause serious eye damage. It may cause skin irritation. It may cause allergic reactions to the skin

11.3 Acute Toxicity:

Chemical Name	CAS number	LD50 (Oral)	LD50 (Dermal)	LC50 (Inhalation)
Polyethyl silicate	11099-06-2	-	-	-

Potential health effects

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

11.4 Chronic Toxicity

Organic silicon compounds are generally of low toxicity

11.5 Other health hazard information

No data available

SECTION 12: ECOLOGICAL INFORMATION

12.1 Ecotoxicity

Fish:	No data available
Water louse and other aquatic invertebrates:	No data available
Algae:	No data available

12.2 Residual/degradability:

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

12.3 Bioaccumulative potential:

No data available

12.4 Mobility in Soil:

No data available

12.5 Additional Environmental Information:

Environmental hazards cannot be ruled out even in the case of professional treatment or disposal

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Product disposal:

Dispose of in accordance with local regulations.

13.2 Packaging disposal:

Dispose of in accordance with local regulations.

SECTION 14: TRANSPORT INFORMATION

14.1 UN-Number	Class 3
14.2 UN Code	1292
14.3 Proper Shipping Name	TETRAETHYL SILICATE
14.4 Transport hazard class(es)	III
14.5 Packing group	III
14.6 Technical name	Polyethyl silicate

SECTION 15: REGULATORY INFORMATION

National and local regulations must be observed. label, see the information in this document. (Issued by the State Council on February 16, 2011):corresponding provisions have been 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: 2 MAY 2025
Version: 1.0