

SpecSilane 100

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SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

1.1 Trade Name (as labeled):	SpecSilane 100
Synonyms:	N/A
CAS No:	Mixture
1.2 Product Use:	Penetrating sealer for concrete surfaces
1.3 Company Name:	SpecChem
Company Address:	1511 Baltimore Ave; Suite 600
Company Address Cont:	Kansas City, MO 64108
Business Phone:	(816) 968-5600
Website:	www.specchemllc.com
1.4 Emergency Telephone Number:	VelocityEHS 1-(800)255-3924 (North America) +1-813-248-0585 (International) 1-300-954-583 (Australia) 0-800-591-6042 (Brazil) 400-120-0751 (China) 000-800-100-4086 (India) 800-099-0731 (Mexico)
Date of Last Revision:	February 12, 2020
Date of Current Revision:	May 17, 2024

SECTION 2 – HAZARDS IDENTIFICATION

Hazard Classification

Classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids – Category 4

Skin Irritation – Category 2

Label elements

Hazard Pictograms



Signal Word: Warning

Hazard Statements:

H227 – Combustible liquid.
H315 – Causes skin irritation.

Precautionary Statements (Prevention):

P210 – Keep away from open flames/hot surfaces. -No smoking
P264 – Wash skin thoroughly after handling.
P280 – Wear protective gloves/ eye protection/ face protection.

Precautionary Statements (Response):

P302 + P352 – IF ON SKIN: Wash with plenty of water/ soap.
P332 + P313 – If skin irritation occurs: Get medical advice/ attention.
P362 + P364 – Take off contaminated clothing and wash it before reuse.

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Storage Statements:

P370 + P378 – In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.

Disposal Statements:

P403 + P235 – Store in a well-ventilated place. Keep cool.

P501 – dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients	Percent	CAS No.
Triethoxyoctylsilane	>=99%	2943-75-1

Note: All WHMIS required information is included in appropriate sections based on the ANSI Z400.1-2010 format. This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR, EU Directives and the Japanese Industrial Standard JIS Z 7250:2000

SECTION 4 – FIRST AID MEASURES

4.1 Description of First Aid Measures:

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact : Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If

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unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

4.2 Most important symptoms/effects, acute and delayed

Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician: If burn is present, treat as any thermal burn, after decontamination. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

SECTION 5 – FIRE FIGHTING MEASURES

Fire Extinguishing Materials:

Suitable extinguishing media: Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing media: Do not use water jet.

Specific hazards arising from the chemical: Standard procedure for chemical fires.

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. As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear.

SECTION 6 – ACCIDENTAL RELEASE MEASURES (STEPS FOR SPILLS)

Personal precautions, protective equipment and emergency procedures:

Remove all sources of ignition. Use personal protective equipment. Follow safe handling advice and personal protective equipment recommendations.

Environmental Precautions:

Do not release the product to the aquatic environment above defined regulatory levels. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up:

Non-sparking tools should be used. Soak up with inert absorbent material. Suppress (knock down) gases/vapours/mists with a water spray jet. Clean up remaining materials from spill with suitable absorbant. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. For large spills, provide dyking or other appropriate containment to keep

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material from spreading. If dyked material can be pumped, store recovered material in appropriate container.
See sections: 7, 8, 11, 12 and 13.

SECTION 7 - HANDLING AND STORAGE

Precautions for Safe Handling:

Do not get on skin or clothing. Avoid inhalation of vapour or mist. Avoid contact with eyes. Do not swallow. Keep container tightly closed. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Take care to prevent spills, waste and minimize release to the environment. Handle in accordance with good industrial hygiene and safety practice. CONTAINERS MAY BE HAZARDOUS WHEN EMPTY. Since emptied containers retain product residue follow all (M)SDS and label warnings even after container is emptied.
Use with local exhaust ventilation. See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

Conditions for safe storage:

Keep in properly labelled containers. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations. Keep away from heat and sources of ignition.

Do not store with the following product types: Strong oxidizing agents. Explosives. Gases.
Unsuitable materials for containers: None known.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Ingredients	Exposure Limits
Ethanol	ACGIH : TWA : 1000ppm (further information: URT irr: Respiratory Tract irritation)
	ACGIH : STEL : 1000ppm (further information: URT irr: Respiratory Tract irritation)
	OSHA Z-1 : TWA : 1,900 mg/m3 – 1000ppm

Exposure controls

Engineering measures

Provide adequate ventilation.

Personal Protective equipment

Respiratory protection

A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator" Decision Logic" may be useful in determining the suitability of various types of respirators.

Hand protection

Use impermeable gloves.

Eye protection

Use chemical splash goggles or face shield.

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Skin and body protection

A safety shower and eye wash fountain should be readily available. To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product.

Hygiene measures

Avoid contact with skin, eyes and clothing. Do not inhale vapors or aerosols. Do not eat, drink, or smoke when using the product. Remove contaminated or saturated clothing.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on Basic Physical and Chemical Properties:**

Appearance (Physical State and Color): Colorless liquid

Odor: alcohol-like

Odor Threshold: No data available

pH: No data available

Melting/Freezing Point: No data available

Boiling Point: > 65°C (> 149°F)

Flash Point: Closed cup: 65°C (149°F)

Evaporation Rate: No data available

Flammability (Solid; Gas): Not applicable

Upper/Lower Flammability or Explosion Limits: No data available

Vapor Pressure (mm Hg @ 20°C (68° F): No data available

Vapor Density: No data available

Relative Density: 0.877

Solubility in Water: No data available

Weight per Gallon: No data available

Partition Coefficient (n-octanol/water): No data available

Auto-Ignition Temperature: No data available

Decomposition Temperature: No data available

Viscosity: Kinematic 2.04cSt at 25°C (77°F)

9.2 Other Information: Explosiveness – Not explosive

SECTION 10 – STABILITY AND REACTIVITY**10.1 Reactivity:****10.2 Stability:****10.3 Possibility of Hazardous Reactions:**

No dangerous reaction known under conditions of normal use.

Stable under conditions of normal storage and use.

Can react with strong oxidizing agents. When heated to temperatures above 150 °C (300 °F) in the presence of air, product can form formaldehyde vapours. Safe handling conditions may be maintained by keeping vapour concentrations within the occupational exposure limit for formaldehyde. Vapours may form explosive mixture with air. Combustible liquid.

10.4 Conditions to Avoid:

Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose

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10.5 Incompatible Substances:

containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.

Avoid contact with oxidizing agents.

10.6 Hazardous Decomposition Products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11 – TOXICOLOGY INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity	LD50 rat: > 5110 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	LC0 rat: 22ppm / 4 h / vapour Method: OECD Test Guideline 403 Assessment: The substance or mixture has no acute inhalation toxicity.
Acute dermal toxicity	Maximum concentration in the test: no animals died. LD50 Rabbit: 6730 mg/kg Method: OECD Test Guideline 402
Skin irritation	Rabbit: Irritating Method: OECD Test Guideline 404
Eye irritation	Rabbit: Not irritating Method: OECD Test Guideline 405
Sensitization	maximization test Guinea pig: No sensitizing effects Method: OECD Test Guideline 406
Repeated dose toxicity	Test substance: Structurally similar substance Oral Rat / 28 day NOAEL: 300 mg/kg Method: OECD TG 422
Assessment of STOT single exposure	Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.
Assessment of STOT repeat exposure	Assessment: The substance or mixture is not classified as specific target organ toxicant, repeat exposure.
Risk of aspiration toxicity	no evidence of aspiration toxicity
Gentoxicity in vitro	Ames test Salmonella typhimurium: negative Method: OECD TG 471 Chromosomal aberration Chinese hamster (CHO K1 -cells): negative Method: OECD TG 473
Carcinogenicity	Genetic mutation in mammal cells TK +/- mouse lymphoma cell (L5178Y) : negative Method: OECD TG 476
Carcinogenicity assessment	No evidence of mutagenic effects have been reported. No data available Contains no carcinogenic substances as defined by NTP, IARC and/or OSHA.
Toxicity to reproduction	Screening for reproductive/ developmental toxicity Oral Rat Number of exposures: daily NOAEL of parents: 300mg/kg Method: OECD TG 422

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Screening for reproductive/ developmental toxicity Oral Rat
Number of exposures: daily
NOAEL F1: 300 mg/kg
Method: OECD TG 422

SECTION 12 – ECOLOGICAL INFORMATION**12.1 Toxicity:**

Toxicity to fish	In the range of water solubility not toxic under test conditions.
Toxicity in aquatic invertebrates	In the range of water solubility not toxic under test conditions.
Toxicity to algae	In the range of water solubility not toxic under test conditions.
Toxicity to bacteria	EC50 local activated sludge: > 1000mg/l / 3h Method: OECD TG 209 NOEC local activated sludge: >= 1000mg/l / 3h Method: OECD TG 209

12.2 Persistence and Degradability:

Biodegradability	Exposure time: 28d Result: 31.5% Not readily biodegradable Method: OECD TG 301 D
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12.3 Bioaccumulative Potential:

Bioaccumulative	not bioaccumulative
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12.4 Mobility in Soil:

Mobility	Adsorption on the floor: low
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12.5 Other adverse effects

Further Information	The data we have at our disposal do not necessitate identification concerning environmental hazard.
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SECTION 13 – DISPOSAL CONSIDERATIONS**13.1 Waste Treatment Methods:****Product**

Waste must be disposed of in accordance with federal, state and local regulations. Incineration is the preferred method.

Uncleaned packaging

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.

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SECTION 14 - TRANSPORTATION INFORMATION

14.1 U.S. Department of Transportation (DOT) Shipping Regulations:

UN Identification Number:	None
Proper Shipping Name:	None
Hazard Class Number and Description:	None
Packing Group:	None
DOT Label(s) Required:	None
North American Emergency Response Guidebook Number:	None

14.2 Environmental Hazards:

Marine Pollutant: None

14.3 Special Precaution for User:

None

14.4 International Air Transport Association

Shipping Information (IATA):

Not dangerous according to transport regulations.

14.5 International Maritime Organization

Shipping Information (IMO):

UN Identification Number:	Not regulated
Proper Shipping Name:	None
Hazard Class Number and Description:	None
Packing Group:	None
EMS-No:	None

SECTION 15 – REGULATORY INFORMATION

US Federal Regulation

OSHA

If listed below, chemical specific standards apply to the product or components:

- None listed

Clean Air Act Section (112)

If listed below, components present at or above the de minimus level are hazardous air pollutants:

- None listed

CERCLA Reportable Quantities

If listed below, a reportable quantity (RQ) applies to the product based on the percent of the named component:

- None listed

SARA Title III 311/312 Hazard Categories

The product meets the criteria only for the listed hazard classes:

- None listed

SARA Title III 313 Reportable Substances

If listed below, components are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

- None listed

Toxic Substances Control Act (TSCA)

If listed below, non-proprietary substances are subject to export notification under Section 12 (b) of TSCA:

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- None listed

State Regulations

The Listing requirements of the Right to Know (RTK) legislation varies by state. All information for NJ, PA, MA and other states can be derived from the listing of hazardous and non-hazardous components in section 2 and 15 of this MSDS.

California Proposition 65

A warning under the California Drinking Water Act is required only if listed below:

- None listed

An employer using HMIS/NFPA labeling must through training ensure that its employees are fully aware of the hazards of the chemicals used.

HMIS Ratings

Health : 2
Flammability : 1
Physical Hazard : 1

NFPA Ratings

Health : 2
Flammability : 1
Physical Hazard : 1

SECTION 16 – OTHER INFORMATION

Prepared By: Chris Eigbrett (MSDS to GHS Compliance)

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The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of the need that information is current, applicable and suited to the circumstances of use. This safety sheet cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. SpecChem assumes no responsibility for injury to vendee or third party person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, SpecChem assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.

END OF SDS SHEET