



Safety Data Sheet
OSHA Hazard Communication Standard
29 CFR 1910.1200. Prepared to GHS Rev 3.

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Trade name:	Concrete & Masonry Protectant
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SECTION 1: Identification

Product identifier: Concrete & Masonry Protectant

Synonyms: None available.

Product Code Number: Not available

Recommended use: Concrete Fluid.

Recommended restrictions: None known.

Manufacturer/Importer/Supplier/Distributor information:

Company Name: GreenChem Industries
Company Address: 222 Clematis St. Suite 207
West Palm Beach, FL 33401
Company Telephone: 561-659-2236

Emergency phone number: Chemtrec- 800-424-9300

SECTION 2: Hazard(s) identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200:

Physical hazards

No physical hazards for this product.

Health hazards

Skin corrosion/irritation, Category 2
Serious eye damage/irritation, Category 2A

Environmental hazards

No environmental hazards for this product.

GHS Signal word: WARNING.

GHS Hazard statement(s): Causes skin irritation.
Causes serious eye irritation.

GHS Hazard symbol(s):



GHS Precautionary statement(s):

Prevention:

Wash skin thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.

Response:

If on skin: Wash with plenty of water.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Specific treatment (see section 4 to 8 on this SDS and any additional information (where available) on this label).
If skin irritation occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.

Storage:

No storage precautionary statements required.

Disposal:

No disposal precautionary statements required.

Hazard(s) not otherwise

Classified (HNOC): None known.

Percentage of ingredient(s) of unknown acute toxicity:

Not applicable.

SECTION 3: Composition/information on ingredients

Mixture:

Chemical name	CAS#	Concentration (weight %)
Potassium methylsilanetriolate	31795-24-1	1-2 %

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret due to the proprietary nature of one of the components.

Note: The balance of the ingredients are not classified as hazardous, or are below the classification threshold under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

SECTION 4: First-aid Measures

Description of necessary measures:

Inhalation: If respiratory irritation or distress occurs remove victim to fresh air. Seek medical attention if irritation develops or persists.

Skin contact: In case of contact, wash with plenty of soap and water. Seek medical attention if irritation develops or persists. Medical conditions possibly aggravated by exposure: Skin contact may aggravate existing skin conditions such as dermatitis.

Eye contact: In case of eye contact, flush with running water for 15 minutes and seek medical attention.

Ingestion: Seek immediate medical attention. Do not leave victim unattended. Do not induce vomiting.

Most important symptoms/effects, acute and delayed: Causes skin irritation. Causes serious eye irritation.

Indication of immediate medical attention and special treatment needed: There is no specific antidote and treatment should be directed at the control of symptoms and the clinical condition.

SECTION 5: Fire-fighting measures

Suitable extinguishing media: Carbon Dioxide, Dry Chemical, Foam, Water Fog.

Unsuitable extinguishing media: No data available.

Specific hazards arising from the chemical: OSHA Class III-B Combustible Liquid. Combustion products –Formaldehyde.

Special protective equipment and precautions for fire-fighters: For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment. This may include self-contained breathing apparatus to protect against the hazardous effects of combustion products and oxygen deficiencies. Notify appropriate authorities if liquid enters sewers and/or waterways.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures: Wear appropriate protective equipment, including respiratory protection, as conditions warrant (see Section 8). See Sections 2 and 7 for additional information on hazards and precautionary measures.

Environmental Precautions: Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems, and natural waterways. If spill occurs on water notify appropriate authorities and advise shipping of any hazard.

Methods and material for containment and cleaning up:

Stop spill at source if possible without risk. Contain Spill. Ventilate area if spilled in confined space or other poorly ventilated areas. Prevent entry into sewers and waterways. Pick up free liquid for recycle and/or disposal.

SECTION 7: Handling and Storage

Precautions for safe handling: Keep material away from heat, sparks, pilot lights, static electricity and open flame. Keep containers closed when not in use. Avoid breathing dust, fume, gas, mist, vapors or spray. Use good personal hygiene practices and wear appropriate personal protective equipment (see section 8).

Conditions for safe storage, including any incompatibles: Keep containers closed when not in use. Wash thoroughly after handling. Launder contaminated clothing before reuse. Empty containers retain material residue. Do not cut, weld, braze, solder, drill, grind or expose containers to heat, flame, spark or other sources of ignition. Dispose of packaging or containers in accordance with local, regional, national and international regulations.

SECTION 8: Exposure controls/personal protection

Control Parameters:

Occupational exposure limits:

**US OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200):
Permissible Exposure Limits**

Substance	PEL-TWA (8 hour)	PEL-STEL (15 min)
Potassium methylsilanetriolate	No data available	No data available

US ACGIH Threshold Limit Values		
Substance	TLV-TWA (8 hour)	TLV-STEL (15 min)
Potassium methylsilanetriolate	No data available	No data available

NIOSH Exposure Limits		
Substance	TWA	STEL
Potassium methylsilanetriolate	No data available	No data available

Appropriate engineering controls: General (mechanical) room ventilation is expected to be adequate. Special local ventilation is suggested at points where vapors can be expected to escape to the workplace air or in enclosed areas.

Individual protection measures, such as personal protective equipment:

Eye/face protection: Eye protection such as chemical goggles in compliance with OSHA regulations are advised.

Skin and Hand protection: Use nitrile, latex, or similar gloves and coveralls. 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.

Respiratory protection: Use approved respirator with a combination organic vapor and high efficiency filter cartridge if recommended exposure limit is exceeded. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites.

Other: Good personal hygiene practices essential, such as avoiding food, tobacco products, or other hand-to-mouth contact when handling.

Thermal hazards: No data available.

SECTION 9: Physical and chemical properties
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Appearance

Physical state:

Liquid

Color:

Light white opaque.

Odor:	Low to none.
Odor threshold:	None.
pH:	10.886.
Melting point/freezing point:	>6 ⁰ C or 20 ⁰ F if frozen
Initial boiling point and boiling range:	>100 ⁰ C or 212 ⁰ F.
Flash point:	>100 ⁰ C or 212 ⁰ F.
Evaporation rate:	Not determined.
Flammability (solid, gas):	Not determined.
Upper/lower flammability or explosive limits	
Flammability limit – lower (%):	Not determined.
Flammability limit – upper (%):	Not determined.
Explosive limit – lower (%):	Not determined.
Explosive limit – upper (%):	Not determined.
Vapor pressure:	Not determined.
Vapor density:	Not determined.
Relative density(Specific gravity):	1.05
Solubility(ies):	Soluble.
Partition coefficient (n-octanol/water):	Not determined.
Auto-ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
Viscosity:	Water (dynamic & kinematic viscosity at 20 ⁰ C), Dynamic =1.002, Kinematic =1.004.

Other information:

Density: 1.077 g/ml

SECTION 10: Stability and Reactivity

Reactivity:	Not chemically reactive.
Chemical stability:	Stable under normal ambient and anticipated conditions of use.
Possibility of hazardous reactions:	Hazardous reactions not anticipated.
Conditions to avoid:	Heat, sparks, flame and build-up of static electricity.
Incompatible materials:	Oxidizing agents, Acids.
Hazardous decomposition Products:	Formaldehyde.

SECTION 11: Toxicological information

Information on likely routes of exposure:

Inhalation:	Inhalation is an expected route of exposure.
Ingestion:	Ingestion is an expected route of exposure
Skin:	Skin is an expected route of exposure.

Eyes: Not an expected route of entry.

Symptoms related to the physical, chemical, and toxicological characteristics:

May cause severe irritation and possible burns, especially if skin is wet. Contact with dry skin causes mild irritation. Contact of solid with moist/wet skin or skin contact with strong solutions may cause marked irritation or possible burns. May cause severe eye irritation, possible transient corneal injury, and possible eye burns. May cause severe irritation of the upper respiratory tract with pain, inflammation and possible burns. May cause severe gastrointestinal (digestive) tract irritation with nausea, vomiting and possible burns. May affect cardiovascular system (cardiac disturbances, slow heart beat), behavior (seizures), metabolism, blood, and brain, respiration (rapid respiration).

Delayed and immediate effects and chronic effects from short or long-term exposure:

Effects may be delayed.

Numerical measures of toxicity:

Ingredient Information:

Substance	Test Type (species)	Value
Potassium methylsilanetriolate	LD ₅₀ Oral (Rat)	> 2000 mg/kg
	LD ₅₀ Dermal (Rabbit)	No data available
	LC ₅₀ Inhalation (Rat)	> 40 mg/l (4h)

Product Acute Toxicity Estimates:

Acute Oral Toxicity –no data available

Acute Dermal Toxicity - no data available

Acute Inhalation Toxicity- no data available

Skin corrosion/irritation:

May cause severe irritation and possible burns, especially if skin is wet. Contact with dry skin causes mild irritation. Contact of solid with moist/wet skin or skin contact with strong solutions may cause marked irritation or possible burns.

Serious eye damage/eye irritation:

May cause severe irritation, possible transient corneal injury, and possible eye burns.

Respiratory sensitization:

No information available on the mixture, however none of the components have been classified as a respiratory sensitizer (or are below the concentration threshold for classification).

Skin sensitization:	No information available on the mixture, however none of the components have been classified as a skin sensitizer (or are below the concentration threshold for classification).
Germ cell mutagenicity:	No information available on the mixture, however none of the components have been classified as showing germ cell mutagenicity (or are below the concentration threshold for classification).
Carcinogenicity:	No information available on the mixture, however none of the components are listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition), or by OSHA.
Reproductive toxicity:	No information available on the mixture, however none of the components have been classified for reproductive toxicity (or are below the concentration threshold for classification).
Specific target organ toxicity- Single exposure:	No information available on the mixture, however one of the components have been classified for STOT SE and may cause respiratory irritation.
Specific target organ toxicity- Repeat exposure:	No information available on the mixture, however none of the components have been classified for STOT RE (or are below the concentration threshold for classification).
Aspiration hazard:	No information available on the mixture, however none of the components have been classified as an aspiration hazard (or are below the concentration threshold for classification).
Further information:	No data available.

SECTION 12: Ecological information

Ecotoxicity:

Product data:No data available

Ingredient Information:

Substance	Test Type	Species	Value
Potassium methylsilanetriolate	LC ₅₀	Fish	No data available
	LC ₀	Aquatic Invertebrates	No data available
	EC ₅₀	Bacteria	> 100 mg/l

Persistence and Degradability: No data available.

Bioaccumulative Potential:

Potassium methylsilanetriolate:Partition coefficient: n-octanol/water. Log Pow: -2.36

Mobility in Soil:No data available.

Other adverse effects:None known

SECTION 13: Disposal considerations

Disposal instructions:

Resource Conservation and Recovery Act (RCRA):

When a decision is made to discard this material as supplied, it is classified as a RCRA hazardous waste.

Waste from residues: Dispose of in accordance with local regulations.

Contaminated packaging: Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal.

See Sections 7 and 8 for information on handling, storage and personal protection and Section 9 for physical/chemical properties. It is possible that the material as produced contains constituents which are not required to be listed in the SDS but could affect the hazardous waste determination. Additionally, use which results in chemical or physical change of this material could subject it to regulation as a hazardous waste.

SECTION 14: Transport Information

US Department of Transportation Classification (49CFR)

Not regulated under DOT

IMDG

Not regulated under IMDG

IATA (Country variations may apply)

Not regulated under IATA

Environmental hazards

Marine pollutant: No.

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)

No further relevant information available.

Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises.

None.

SECTION 15: Regulatory Information**USA:**

United States Federal Regulations: This SDS complies with the OSHA, 29 CFR 1910.1200. The product is hazardous under OSHA.

Toxic Substances Control Act (TSCA)—All substances in this product are listed, as required, or are exempt from the TSCA inventory.

SARA Superfund and Reauthorization Act of 1986 Title III sections 302, 311,312 and 313:

Section 302 – No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

CERCLA Hazardous Substance List, 40 CFR 302.4: This product does not contain chemicals listed on CERCLA.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):
None

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3): None

SARA Title III

Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A): None

Section 311/312 (40 CFR 370):

Acute Health Hazard: Yes

Chronic Health Hazard: No

Fire Hazard: No

Pressure Hazard: No

Reactivity Hazard: No

Section 313 Toxic Release Inventory (40 CFR 372):

None

STATE REGULATIONS:

This SDS contains specific health and safety data is applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

California Proposition 65 (California Safe Drinking Water and Toxic Enforcement Act of 1986): No components are listed on Prop 65.

New Jersey Right to Know: Potassium methylsilanetriolate is listed on the New Jersey Right to Know list.

Pennsylvania Right to Know: Potassium methylsilanetriolate is listed on the Pennsylvania Right to Know List.

Canada WHMIS Hazard Class: D2B – Toxic material.

SECTION 16: Other Information

Revision Date: August 10, 2018

To the best of our knowledge, the information contained herein is accurate. However, GreenChem do not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.