

# Safety Data Sheet (SDS)

## Section 1 - Chemical Product and Company Information

Product Name: SurCoShield™ - Cementitious Materials Product Code: RW-001

Manufactured by:

Surtreat Solutions, Inc.  
1210 Frick Building 437  
Grant Street Pittsburgh,  
PA 15219

Telephone 412-281-1202

In case of transportation or  
chemical emergency contact:

ChemTel, Inc  
(800) 255-3924, +1 (813) 248-0585

Product Use: Sealer

## Section 2 - Hazards

According to Regulation 2012 OSHA Hazard Communication Standard: 29 CFR Part 1910.1200

### GHS Ratings:

Skin corrosive	1A	Destruction of dermal tissue: Exposure < 3 min. Observation < 1 hour, visible necrosis in at least one animal
Eye corrosive	1	Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity >= 3, Iritis > 1.5

### GHS Hazards

H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage

### GHS Precautions

P260	Do not breathe dust/fume/gas/mist/vapours/spray
P264	Wash hands and exposed skin thoroughly after handling
P280	Wear protective gloves/protective clothing/eye protection/face protection
P310	Immediately call a POISON CENTER or doctor/physician
P321	Specific treatment (see Section 4 on this SDS)
P363	Wash contaminated clothing before reuse
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
P305+P351+P338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing  
P405 Store locked up  
P501 Dispose of contents/container in accordance with local/ regional/ national/, regulations.

Signal Word: Danger



### Section 3 - Composition

Chemical Name	CAS number	Weight Concentration %
Water	7732-18-5	80.00% - 90.00%
Potassium methyl silicate	31795-24-1	5.00% - 10.00%
Potassium silicate	1312-76-1	5.00% - 10.00%

### Section 4 - First Aid Measures

**INHALATION** - Take affected persons out into the fresh air. Supply fresh air; consult doctor in case of complaints. Provide oxygen treatment if affected person has difficulty breathing.  
In case of irregular breathing or respiratory arrest provide artificial respiration.  
In case of unconsciousness place patient stably in side position for transportation.

**EYE CONTACT** - In case of eye contact, flush the eyes with water for fifteen (15) minutes. If contact lenses are worn, quickly remove them, then flush the eyes with water. If irritation persists have a physician examine the eyes.

**SKIN CONTACT** - Remove any clothing soiled by the product.  
Wash with water and soap and rinse thoroughly.  
Rinse until skin no longer feels slippery.  
If skin irritation continues, consult a doctor.

**INGESTION** - If material is ingested, rinse out mouth with water and seek immediate medical attention if irritation persists. Do not induce vomiting but if vomiting occurs spontaneously, keep the head below the hips to prevent aspiration of liquid into the lungs. If victim is conscious drink large quantities of water to dilute stomach contents.

Notes to Physician:

If swallowed or in case of vomiting, danger of entering the lungs.  
If necessary oxygen respiration treatment.

### Section 5 - Fire Fighting Measures

Flash Point: N/A

LEL: N/A

UEL: N/A

**EXTINGUISHING MEDIA:** This product is not inherently flammable. Use media appropriate for surrounding fire.

**UNUSUAL FIRE OR EXPLOSION HAZARDS:** None known.

**HAZARDOUS COMBUSTION PRODUCTS:** See section 10 for a list of hazardous decomposition products for this mixture.

**FIRE FIGHTING:** If evacuation of personnel is necessary, evacuate to an upwind area. Decontaminate personnel and equipment with a water wash-down after fire and smoke exposure.

**FIRE FIGHTING EQUIPMENT:** Firemen and emergency responders: use fire suppression equipment and PPE suitable for surrounding fire.

## Section 6 - Accidental Release Measures

**SPILL AND LEAK PROCEDURES:** Spill supervisor - Ensure cleanup personnel wear all appropriate Personal Protective Equipment (PPE), including respiratory protection. Keep nonessential personnel away from the contaminated area. Spilled product may be very slippery!

**SMALL SPILLS:** Mix the appropriate sorbent into the spilled material. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Collect the saturated sorbent and transfer it into a covered container. Steel or plastic containers are acceptable for wastes. Rinse with water to remove any residue.

Dispose of the waste in compliance with all Federal, state, regional, and local regulations.

**LARGE SPILLS:** Prevent this material from entering sewers and watercourses by diking or impounding the spilled material. Advise authorities if the product has entered or may enter, sewers, watercourses, or extensive land areas.

Mix the appropriate sorbent into the spilled material. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Collect the saturated sorbent and transfer it into a covered container. Steel or plastic containers are acceptable for wastes. Rinse with water to remove any residue.

Label the waste container. Dispose of the waste in compliance with all Federal, state, regional, and local regulations.

## Section 7 - Handling and Storage

**HANDLING PRECAUTIONS:** While this product is not considered a hazardous material by OSHA regulations it is common sense to reduce routine and repeated exposure to any chemical product. Wear all appropriate Personal Protective Equipment (PPE). Wear respiratory protection or ensure adequate ventilation at all times as vapors can accumulate in confined or poorly ventilated areas. Avoid aerosolizing product. Use the product in a manner which minimizes splashes and/or the creation of dust. Keep containers closed when not in use. Store at room temperatures, i.e., 40 to 95 F (4 to 35 C).

**STORAGE: Requirements to be met by storerooms and receptacles:**

Store in a cool location.

Provide ventilation for receptacles.

**Information about storage in one common storage facility:**

Store away from foodstuffs.

**Further information about storage conditions:**

Store in cool, dry conditions in well-sealed receptacles.

Keep container tightly sealed.

**REGULATORY REQUIREMENTS:** No data found.

### Section 8 - Exposure Controls / Personal Protection

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Water 7732-18-5	Not Established	Not Established	Not Established
Potassium methyl silicate 31795-24-1	Not Established	Not Established	Not Established
Potassium silicate 1312-76-1	Not Established	Not Established	Not Established

**ENGINEERING:**

**VENTILATION:** Use only with adequate ventilation, i.e., ventilation in compliance with occupational exposure limits. Use mechanical ventilation to reduce buildup of vapors in enclosed areas.

**ADMINISTRATIVE CONTROLS:** Read SDS and follow recommended procedures.

**PROTECTIVE EQUIPMENT:** Wear splash goggles.

Wear chemical-resistant gloves (butyl rubber or neoprene). Protective gloves should be inspected frequently and discarded when they exhibit cuts, tears, pinholes, or signs of excessive wear.

Respiratory protection may not be needed if the local exhaust is sufficient to maintain levels of hazardous ingredients below occupational exposure limits.

**CONTAMINATED EQUIPMENT:** Dispose of the waste in compliance with all Federal, state, regional, and local regulations.

### Section 9 - Physical and Chemical Properties

This mixture typically exhibits the following properties under normal circumstances:

<b>Appearance:</b> Clear liquid	<b>Odor:</b> Mild
<b>Vapor Pressure:</b> 17.0 mmHg @ 865°C	<b>Odor threshold:</b> No Data
<b>Vapor Density:</b> 0.6	<b>pH:</b> 13.5
<b>Specific Gravity:</b> 1.086	<b>Melting point:</b> Calculated
<b>Freezing point:</b> No Data	<b>Solubility:</b> No Data
<b>Boiling range:</b> 100°C	<b>Flash point:</b> No Data
<b>Evaporation rate:</b> No Data	<b>Flammability:</b> No Data

<b>Explosive Limits:</b> N/A  <b>Autoignition temperature:</b> No Data  <b>Viscosity:</b> No Data	<b>Partition coefficient</b> No Data <b>(n-octanol/water):</b>  <b>Decomposition temperature:</b> No Data  <b>Grams VOC less water:</b> No Data
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## Section 10 - Stability and Reactivity

Stability: Hazardous polymerization will not occur.

STABLE

Components of this mixture are incompatible with the following materials: None known

This mixture is likely to exhibit the following combustion products:  
Oxides of carbon.

Hazardous polymerization will not occur.

## Section 11 - Toxicological Information

### Mixture Toxicity

Inhalation Toxicity LC50: 33mg/L

### Component Toxicity

31795-24-1	Potassium methyl siliconate Oral LD50: 2,001 mg/kg (rat)
1312-76-1	Potassium silicate Inhalation LC50: 2 g/m3 (Rat)

Exposure to this material may affect the following organs:

### Effects of Overexposure

**Carcinogenicity:** The following chemicals comprise 0.1% or more of this mixture and are listed and/or classified as carcinogens or potential carcinogens by NTP, IARC, OSHA (mandatory listing), or ACGIH (optional listing).

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
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Preexisting skin, eye, and respiratory disorders may be aggravated by exposure to this product.

## Section 12 - Ecological Information

Ecological information: No data found.

### Component Ecotoxicity

Potassium methyl silicate

Result/Effect Species/Test system Source  
LC50: > 500 mg/l semistatic zebra fish (Danio rerio) (96 h) test report (Alkoxysilanes) OECD 203  
EC50: > 100 mg/l (nominal) static Daphnia magna (48 h) test report OECD 202  
EC50: > 120 mg/l (nominal) static Pseudokirchneriella subcapitata (72 h) test report (Alkoxy silanes) OECD 201  
EC50: > 100 mg/l no data available test report OECD 209

Potassium silicate

Aquatic Toxicity  
LC50 : (48 h) : Species - Fish (Leuciscus idus) >146 mg/l  
EC50 : (24 h) : Species - Invertebrates (Daphnia magna) > 146 mg/l

**Section 13 - Disposal Considerations**

As the US EPA, state, regional, and other regulatory agencies may have jurisdiction over the disposal of your facility's hazardous waste, it is incumbent upon you, the hazardous waste generator, to learn of and satisfy all the requirements which affect you. Dispose of the hazardous waste at a properly licensed and permitted disposal site or facility. Ensure conformity to all applicable hazardous waste disposal regulations.

The US EPA Hazardous Waste Numbers which follow are applicable to this unadulterated product if the product enters the "waste stream." Refer to Title 40 of the Code of Federal Regulations, Part 261 (40 CFR 261). This part of the Code identifies solid wastes which are subject to regulation under various sections of the Code and which are subject to the notification requirements of Section 3010 of the Resource Conservation and Recovery Act (RCRA).

**Section 14 - Transport Information**

This material is classified for transport as follows:

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
US DOT	Non Regulated			

**Section 15 - Regulatory Information**

Additional regulatory listings, where applicable.

The following chemicals are listed under Prop 65  
31795-24-1 Potassium methyl silicate 5 to 10 % Reproductive Toxin

<u>Country</u>	<u>Regulation</u>	<u>All Components Listed</u>
Canada	Canadian Domestic Substances List	Yes
US	Toxic Substances Control Act	Yes

**EU Risk Phrases**

**Safety Phrase**

**Toxic Substances Control Act (TSCA):** All chemicals except those listed below appear in the Toxic Substances Control Act Chemical Substance Inventory:

- None

**Section 16 - Other Information**

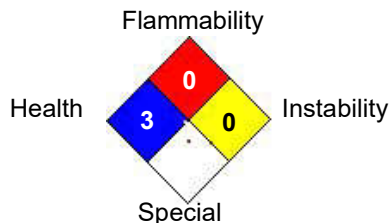
**Hazardous Material Information System (HMIS)**

**National Fire Protection Association (NFPA)**

HEALTH	<input type="text" value="3"/>
FLAMMABILITY	<input type="text" value="0"/>
PHYSICAL HAZARD	<input type="text" value="0"/>
PERSONAL PROTECTION	<input type="text"/>

**HMIS & NFPA Hazard Rating Legend**

- \* = Chronic Health Hazard
- 0 = INSIGNIFICANT
- 1 = SLIGHT
- 2 = MODERATE
- 3 = HIGH



**DISCLAIMER AND NON-WARRANTY:** This Safety Data Sheet was prepared by Shore Corporation and is correct to the best of our knowledge, information and belief at the date of its publication. The information came from raw material suppliers, regulatory databases, and/or third parties with expertise in this area. This information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release. No warranties of any kind, either expressed or implied, including warranties of the accuracy of the information presented and the suitability of a product for a particular purpose

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