

# SAFETY DATA SHEET



Issue Date: March 28, 2017

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Version 2017

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Chemisil

**Other Means of Identification**

**SDS #:** F4210

**Recommended Use:** Chemical Floor Hardener for Concrete

**Restrictions on Use:** No Data

**Supplier of the Safety Data Sheet including Address:**

ChemMasters Inc.  
300 Edwards Street  
Madison, OH 44057

**Telephone Numbers**

**Company Phone Number**

Phone: 800-486-7866, 440-428-2105

Fax: 440-428-7091

**Emergency Telephone:** ChemTrec 800-424-9300

## 2. HAZARDS IDENTIFICATION

**Emergency Overview**

**OSHA Hazards**

Alkaline. Causes serious eye irritation and skin irritation.

**Target Organs:** Eye, Skin

**GHS Classification**

Skin Irritation Category 2

Eye Irritation Category 2A

**Label Elements, including precautionary statements**

**Pictograms:**

**Signal Word:** Warning

**Hazard Statements:**

**H315** Causes skin irritation

**H319** Causes serious eye irritation

**Precautionary Statement(s)**

**Prevention:**

**P264** Wash hands and skin thoroughly after handling.

**P280** Wear protective gloves/protective clothing/eye protection/face protection.

**Response:**

- P303+P361+P353** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
- P332+P313** If skin irritation occurs: Get medical advice or attention.
- P305+P351+P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+P313** If eye irritation persists: Get medical advice or attention.
- P362+P364** Take off contaminated clothing and wash it before reuse.

**Hazards Not Otherwise Classified:** Spilled material is slippery.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Component**

Water	CAS No. 7732-18-5	90-91%
Silicic acid, sodium salt	CAS No. 1344-09-8	9-10%

Ingredients not listed on this safety data sheet are considered to be non-hazardous according to OSHA 1910.1200 or are not present above their cutoff levels. Where a range is displayed, the exact percentage of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

**First Aid Measures**

**General Advice:** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**Inhalation:** IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

**Eye Contact:** IF IN EYES: Rinse cautiously with water for several minutes (A minimum of 15 minutes is recommended). Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

**Ingestion:** IF SWALLOWED: Do NOT induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious person. Call a POISON CENTER/doctor if you feel unwell.

**Skin Contact:** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. If skin irritation occurs: Get medical advice or attention.

### 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**

Water spray, alcohol-resistant foam, dry chemical, or carbon dioxide

**Specific Hazards Arising from the Chemical**

Not Applicable. Product is a Non-combustible Aqueous solution.

**Hazardous Combustion Products**

None known

**Protective Equipment and Precautions for Firefighters**

Wear self-contained breathing apparatus and full protective gear for firefighting.

**Further Information**

Product is compatible with all standard fire-fighting techniques.

## 6. ACCIDENTAL RELEASE MEASURES

### **Personal Precautions, Protective Equipment and Emergency Procedures**

Use personal protective equipment including protective clothing, eye and face protection. Spillage may be slippery.

### **Environmental Precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains or soil/vegetation.

### **Methods and Material for Containment and Cleaning Up**

Contain spillage with sand, earth or a suitable adsorbent and transfer to a container for disposal according to local regulations.

## 7. HANDLING AND STORAGE

### **Precautions for Safe Handling**

Avoid contact with skin and eyes.

### **Conditions for Safe Storage, Including any Incompatibilities**

Keep at a temperature not exceeding 38 Degrees C (100 Degrees F). Do not allow material to freeze. 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.

Unsuitable Containers: Aluminum

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Exposure Guidelines**

#### **Component Exposure Limits**

No occupational exposure limit has been assigned to Silicic acid, Sodium Salt. An exposure limit of 2 mg/m<sup>3</sup> (15 min. TWA) is recommended by analogy with sodium hydroxide (UK EH40).

#### **Appropriate Engineering Controls**

Local Ventilation: Recommended

General Ventilation: Recommended

#### **Individual Protection Measures, such as Personal Protective Equipment**

**Eye/Face Protection:** Use proper protection – Safety Glasses as a minimum

**Skin and Body Protection:** Wash at mealtime and end of shift. Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc.). Use chemical protective gloves as a minimum and wash skin promptly upon any skin contact.

**Respiratory Protection:** Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators.

#### **General Hygiene Considerations**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before & after breaks and work day.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on Basic Physical and Chemical Properties

**Physical State:** Liquid

**Appearance:** Clear

**Color:** Colourless

**Odor:** Odorless

**Odor threshold:** No Data

<u>Property</u>	<u>Value</u>	<u>Remarks – Method</u>
Vapor Pressure	Not Available	
Vapor Density	Not Available	
Relative Density	Not Available	
pH:	11	
Melting/Freezing Point	Not Available	
Solubility	Soluble in water	
Evaporation Rate	Not Available	
Flash Point	Not Relevant	
Flammability Limits	Not Relevant	
Flammability (Solid, gas)	Not Relevant	
Auto Ignition Temperature	Not Relevant	
Initial Boiling Point/Boiling Range	100 Degrees C	
Decomposition Temperature	Not Available	
Viscosity	Not Available	
Specific Gravity	1.08 at 25 Degrees C	9.0 lbs./gallon

## 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable

**Possibility of Hazardous Reactions:** When arc welding vessels containing aqueous solutions of this material, take care to control any explosion risk from hydrogen evolved by electrolysis. Aqueous solutions will react with aluminum, zinc, tin and their alloys evolving hydrogen gas which can form an explosive mixture with air. Material can react violently if in contact with acids. Material can react with sugar residues to form carbon monoxide.

**Conditions to Avoid:** See note above.

**Incompatible Materials:** See note above.

### **Hazardous Decomposition Products**

None Known

## 11. TOXICOLOGICAL INFORMATION

### **Potential Health Effects – Acute Toxicity**

<b>Ingestion</b>	All symptoms of acute toxicity are due to high alkalinity. Material will cause irritation. Oral LD50 (rat) 3400 mg/kg bw.
<b>Inhalation</b>	Mist is an irritant to the respiratory tract. All symptoms of acute toxicity are due to high alkalinity. Inhalation LC50 (rat) >2.06 g/m3.
<b>Skin</b>	Causes skin irritation.
<b>Eyes</b>	Causes serious eye irritation.

### **Information on Physical, Chemical and Toxicological Effects:**

See Acute Toxicity above

### **Delayed - Chronic Effects from Long-Term Exposure**

None Known

### **Carcinogenicity: IARC, ACGIH, NTP, OSHA**

None Known

## 12. ECOLOGICAL INFORMATION

### **Ecotoxicity:**

Fish (Brachydanio rerio) LC50 (96 hrs.) 1108 mg/l

Aquatic invertebrates: (Daphnia magna) EC50 (48 hrs.) 1700 mg/l

**Persistence and Degradability:** Inorganic. Soluble silicates, upon dilution, rapidly depolymerize into molecular species indistinguishable from natural dissolved silica.

**Bioaccumulation:** Inorganic. The substance has no potential for bioaccumulation.

**Mobility:** Not Applicable

**Other Adverse Effects:** The alkalinity of this material will have a local effect on ecosystems sensitive to changes in pH.

## 13. DISPOSAL CONSIDERATIONS

### **Waste Treatment Methods**

**Disposal of Wastes:** This material is classified as hazardous waste under EC Directive 2008/98/EC and England and Wales Regulations SI 2005 No. 894. Offer surplus and non-recyclable solutions to a licensed disposal company. Disposal should be in accordance with local, state or national regulation.

**Contaminated Packaging:** Dispose of as unused product.

## 14. TRANSPORT INFORMATION

**D.O.T.:** Not Regulated

**I.M.D.G.:** Not Regulated

**Marine Pollutant:** No

**I.A.T.A.:** Not Regulated

## 15. REGULATORY INFORMATION

### **International Inventories**

**TSCA:** All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

### **US Federal Regulations**

**SARA 302:** None

**SARA 311/312 Hazard Categories:** Acute: Yes

**SARA 313 Hazard Categories:** None

**CWA (Clean Water Act):** None

**Supplemental State Compliance Information:** None

**U.S. EPA Label Information:** No Data

## 16. OTHER INFORMATION

### HMIS Classification:

Health hazard: 1  
Flammability: 0  
Physical Hazards: 0

### NFPA Rating:

Health hazard: 1  
Fire: 0  
Reactivity Hazard: 0

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**Revision Note: Reviewed and Updated**

**Date of Previous Version: June 20, 2014**

### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**