

## Safety Data Sheet (SDS)

### 1. Identification

PRODUCT NAME: EMECOLE Eme-Seal-Crete  
SYNONYM: SILICIC ACID  
MANUFACTURER / SUPPLIER: EMECOLE, INC.  
P.O. Box 7486, Romeoville, IL 60446  
info@emecole.com

EMERGENCY TELEPHONE: Contact InfoTrac 1-800-535-5053  
OUTSIDE U.S. and CANADA: Contact InfoTrac 1-353-323-3500

NOTE: InfoTrac emergency number is to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

### 2. Hazard(s) Identification

Signal Word: **WARNING**

Target Organs: Eyes and skin.



**Skin Contact:** Direct contact may cause severe irritation, pain and possible burns.

**Ingestion:** Harmful if swallowed - May cause immediate pain and severe burns to the esophagus and gastrointestinal tract with vomiting, nausea and diarrhea. May cause swelling and tissue destruction to mucous membranes of the mouth, throat, esophagus and stomach.

**Inhalation:** Causes irritation of the mouth, nose, and throat.

**Precautionary Statements:** Do not handle until all safety precautions have been read and understood. Do not breathe vapors. In case of inadequate ventilation wear respiratory protection. Wear protective gloves and eye protection. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Store locked up. Keep away from children. Dispose of contents and container in accordance with applicable local, regional and national regulations.

Signal Word: **DANGER**



**Hazard Statement:** Harmful if swallowed. Causes skin irritation. Causes serious eye irritation.

**Eye Contact:** Direct contact may cause severe irritation, pain and possible burns, possibly severe and permanent damage, including blindness. The full extent of the injury may not be immediately apparent.

**Medical Conditions Aggravated:** Pre-existing respiratory disorders, skin disorders.

**Chronic Effects / Carcinogenicity**

This product is NOT listed as a carcinogen or suspected carcinogen by NPT, IARC, or OSHA.

### 3. Composition / Information on Ingredients

<u>INGREDIENTS</u>	<u>% BY WEIGHT</u>	<u>C.S.A. #</u>
Water	62.5%	7732-18-5
Sodium Silicate	30 - 60%	1344-09-8

### 4. First Aid Measures

**Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes, forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissues. Washing eyes within several seconds is essential to achieve maximum effectiveness. **Seek immediate medical attention.**

**Skin:** Immediately flush contaminated area with water. Wash with soap and water. Remove contaminated clothing, jewelry and shoes. Wash contaminated area with soap and water. Wash contaminated clothing and shoes thoroughly before reuse. Seek medical attention immediately.

**Ingestion:** If swallowed, do not induce vomiting. Give large amounts of water. If vomiting occurs spontaneously, keep airway clear. Give more water when vomiting stops.. (Never give anything by mouth to an unconscious or convulsive person.)

**Inhalation:** If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get medical attention immediately.

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### 5. Fire Fighting Measures

**Fire Hazard:** Negligible    **Flash point:** Non-combustible    **Flammable Limits:**    **LEL:** N/A    **UEL:** N/A

**Extinguishing Media:** Use media appropriate for surrounding fire. This material is compatible with all extinguishing media

**Protective equipment:** The following protective equipment for fire fighters is recommended when this material is present in the area of a fire: chemical goggles, body-covering protective clothing, chemical resistant gloves, and rubber boots. Remove container from fire area if it can be done without risk. Avoid inhalation, stay upwind.

**Hazardous Decomposition Products:** Hydrogen

### 6. Accidental Release Measures

**Spill:** Flush spill area with water, if appropriate. Dries to form glass film which can easily cut skin. Avoid contact with skin and eyes. Wear appropriate protective clothing designated in Section 8. Liquid material may be removed with a vacuum truck. Wet material is slippery under foot.

**Clean up:** Liquid material may be removed with a vacuum truck. Shovel dried residue into suitable container. Report releases to appropriate agencies. This material is alkaline and may raise the pH of surface waters with low buffering capacity. **Prevent entry into drains, sewers or waterways.**

**Disposal:** Not a hazardous waste. Any disposal practice must be in compliance with all federal, state and local laws and regulations. Chemical additions, processing, storage, or otherwise altering this material may make the waste management information presented in this SDS incomplete, inaccurate or otherwise inappropriate. Waste characterization and disposal compliance is the responsibility solely of the party generating the waste or deciding to discard or dispose of the material.

### 7. Handling and Storage

**Storage:** Keep containers tightly closed and properly labeled. Store in clean steel or plastic containers. Separate from acids, reactive metals, and ammonium salts. Storage temperature 0-95°C. Loading temperature 45-95°C. Do not store in aluminum, fiberglass, copper, brass, zinc or galvanized containers.

**Handling:** Wear all appropriate personal protective equipment specified in Section 8. Do not get in eyes or on skin or clothing. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10), food and drink. Containers that have been opened must be carefully re-sealed and kept upright to prevent leakage. **CAUTION!** Do not take internally. Keep out of reach of children

### 8. Exposure Controls / Personal Protection

**Exposure:** Wear protective clothing to prevent repeated or prolonged contact with product. Select and use gloves and protective clothing to prevent skin contact based on the results of an exposure assessment. When skin contact is likely, wear Tychem SL or similar protective suit. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions.

**Respiratory Protection:** An exposure assessment may be needed to decide if a respirator is required. If exposure limits are exceeded or respiratory irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. (Use NIOSH/MSHA approved respirator if spraying overhead with an airless sprayer) Respiratory protection in accordance with OSHA regulations. (29 CFR 1910.134)

**Ventilation: Engineering Measures:** Where mist or spray may be generated, use adequate local exhaust ventilation.

**Eye Protection:** Chemical splash goggles or safety glasses with side shields.

**Protective Material Types:** Butyl rubber, Natural rubber, Neoprene, Nitrile, Tychem SL and Tyvek

*Facilities storing or using this material should be equipped with an eyewash station and safety shower.*

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### 9. Physical and Chemical Properties

**Specific Gravity:** (WATER=1) 1.3 - 1.61

**Odor:** Odorless to slight odor

**Freezing Point:** 30 °F (-1 °C)

**Color:** Colorless (Clear to opaque)

**Flammable Limits:** LEL (%) NA UEL – (%) NA

**VOC Excl. H2O & Exempts (G/L):** 298 g/l

**% Volatile by wt:** > 50%

**Appearance:** Liquid

**Boiling Point:** 214 - 216 °F (101 - 102 °C)

**Density:** 11.0 - 13.4 lbs/gal

**Solubility in Water:** 100%

### 10. Stability and Reactivity

**Stability:** Stable at normal temperatures. Prolonged contact with incompatible materials may produce flammable hydrogen gas.

**Conditions to Avoid:** Prolonged storage above 140° F (60° C)

**Reactivity (Incompatibility: materials to avoid):** Gels and generates heat when mixed with acid. May react with ammonium salts resulting in evolution of ammonia gas. Flammable hydrogen gas may be produced on contact with aluminum, tin, lead, and zinc.

**Hazardous Polymerization:** Hazardous polymerization will not occur.

**Conditions to Avoid:** None.

**Hazardous Decomposition Products:** Hydrogen.

### 11. Toxicological Information

**Toxicological Data:** Solutions of sodium silicate are alkaline. Exposure to alkaline solutions may result in irritation to severe burns depending on the concentration and duration of the exposure. Sodium silicate is a type of amorphous silica and does not cause pulmonary silicosis.

<b>Standard Draize (Eye)</b>	Test results for solutions with the following pH/weight ratio of SiO <sub>2</sub> /Na <sub>2</sub> O are as follows 11.6/2.54 = irritant; 12.4/1.8 = corrosive.
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**Toxicity Data:**

Component	LD <sub>50</sub> Oral	LC <sub>50</sub> Inhalation	LD <sub>50</sub> Dermal
Sodium Silicate	1153 mg/kg (Rat)	-----	4640 mg/kg (Rabbit)

**Carcinogenicity:**

NTP	IARC	OSHA
Not classified as a carcinogen.	Not classified as a carcinogen.	Not classified as a carcinogen.

### 12. Ecological Information

**Aquatic Toxicity:** This material is believed to be practically non-toxic to aquatic life. Sinks and mixes with water. High pH of this material may harmful to aquatic life.

**Fate and Transport:**

**Biodegradation:** This material is organic and not subject to biodegradation.

**Persistence:** This material is believed to persist in the environment.

**Bioconcentration:** This material is not expected to bioconcentrate in organisms.

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### 13. Disposal Considerations

**Not a hazardous waste.** Neutralize and landfill solids in accordance with federal, state and local regulations. Flush neutral liquid to sewer accordance with federal, state and local regulations and permits.

**Disposal:** Any disposal practice must be in compliance with all federal, state and local laws and regulations. Chemical additions, processing, storage, or otherwise altering this material may make the waste management information presented in this SDS incomplete, inaccurate or otherwise inappropriate. Waste characterization and disposal compliance is the responsibility solely of the party generating the waste or deciding to discard or dispose of the material.

Refer to RCRA 4 CFR 261 and/or any other appropriate federal, state or local requirements for proper classification information.

**RCRA/EPA Waste Information:** The generation of waste should be avoided or minimized whenever possible. Chemical waste, even small quantities, should never be poured down drains, sewers or waterways.

### 14. Transport Information

**U.S. Dot 49 CFR 172.101:**

**DOT (Domestic surface): Shipping name:** Not regulated (Class 55)

**Canadian Transportation of Dangerous Goods:** Not regulated

### 15. Regulatory Information

**OSHA:** (29 CFR 1910.1200) (US): Hazardous

**OSHA:** (PSM) (29 CFR 1910.119) (US): Not regulated

**SARA (311,312) Hazard Class:** (40 CFR 340.21)

Acute Health Hazard

**SARA (313):** (40 CFR 372.65)

Not regulated

**TSCA:** All components are listed or exempt.

**California Proposition 65:**

This product is not listed, but may contain contaminants known to the State of California to cause cancer or reproductive toxicity as listed under Proposition 65 State Drinking Water and Toxic Enforcement Act.

**Canadian Regulatory Information:**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

**WHMIS Hazard Class:**

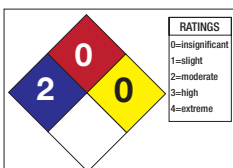
**D2B – Toxic Material Causing Other Toxic Effects**

**Canadian Chemical Inventory:** All components are listed

### 16. Other Information

All statements, technical information and recommendations contained herein are based upon available scientific test or data which we believe to be reliable since we cannot anticipate all conditions under which this information and our products or the products of other manufacturers in combination with our products may be used. Emecole makes no warranties, express or implied, and assumes no responsibility in connection with any use of this information.

**NFPA Ratings:**



**HMIS Ratings:**

