

Safety Data Sheet

Super Hard-S

Section 1

Product Description

Product Name: Super Hard-S
Recommended Use: Concrete densifier
Supplier: Clemons Concrete Coatings, 505 Cave Rd., Nashville, TN 37210, 615-872-9099
Emergency Phone: INFOTRAC 1-800-535-5053

Section 2

Hazard identification

Category 2B Eye Irritant

Signal Word:

Warning.

Hazard Statement:

H320 Causes eye irritation.

Precautionary Statement:

Prevention:

P261 Avoid breathing mist.
P280 Wear eye protection.
P270 Do not eat, drink, or smoke while using this product.

Response:

P301+P314 IF SWALLOWED: Get medical advice if you feel unwell.
P302+P353 IF ON SKIN: Rinse skin with water.
P304+P340+P342+P313 IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Get medical advice.
P305+ P351+P338+P314 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. Get medical advice if you feel unwell.

Section 3

Composition/ Information on Ingredients

	<u>CAS #</u>	<u>OSHA PEL(TWA)</u>	<u>ACGIH(TLV-TWA)</u>	<u>Conc.(wt. %)</u>
Dihydrogen oxide	7732-18-5	Not established	Not established	85.0 - 90.0
Silicic acid, sodium salt	1344-09-8	Not established	Not established	10.0 - 15.0

Section 4

First Aid Measures

Emergency First Aid Procedures

Skin: Clean area with soap and water. If irritation develops, get medical attention.

Eyes: Flush with a gentle but large stream of clean water for 15 minutes, lifting the lower and upper eyelids occasionally. Remove contact lenses if present and easy to do – continue rinsing. If irritation develops, get medical attention.

Inhalation (mist): Move to fresh air and keep comfortable for breathing. Seek medical attention if irritation persists.

Ingestion: Get medical advice if you feel unwell.

Section 5

Firefighting Procedures

Extinguishing Media: Dry chemical, CO₂, foam, water fog

Flash Point (TCC): N/A

Flammable Limits (% volume in air for solvents): LEL=N/A UEL=N/A

Special Fire Fighting Procedures: Firefighters wear NIOSH approved self-contained breathing apparatus. Cool containers exposed to fire with water.

Section 6

Spill or Leak Procedures

Safety Data Sheet

Steps to Take if Material is Released or Spilled: No health effects expected from the clean-up of the material. Follow the protection information found in Section 8 of this SDS. Absorb spillage in suitable inert material. Sweep or scrape up and containerize. Rinse affected area thoroughly with water.

Section 7 Handling and Storage

Normal Handling: Always use good industrial hygiene practices and safety guidelines.

Storage: Store material in its original container. Keep containers tightly closed when not in use.

Waste Disposal Method: Material is not considered a RCRA Hazardous Waste. Dispose of material in accordance with federal, state, and local guidelines.

Special Precautions: Avoid freezing. Store in a cool, dry place with adequate ventilation.

Section 8 Protection Information

Respiratory Protection: Use NIOSH-approved respirator when the chance of mist inhalation is present.

Ventilation: Provide adequate mechanical ventilation to keep mist levels low.

Protective Gloves: Wear impervious chemical gloves.

Eye Protection: Wear chemical safety glasses.

Other Protective Clothing or Equipment: As needed to prevent repeated/prolonged contact.

Work/Hygienic Practices: Use only in adequately-ventilated area unless recommended respiratory protection is used. Wash thoroughly with soap and water after handling and before eating, smoking, or using washroom. If clothes become contaminated, change to clean clothing and wash contaminated clothes before re-use.

Section 9 Physical Data

Appearance: Clear to hazy liquid

Odor: Odorless or musty odor

Odor Threshold: No data available

pH: 11.0

Freezing/Melting Point: Not determined

Boiling Point: 212° F

Flash Point: N/A

Evaporation Rate: Not determined

Flammability (solid, gas): Non-flammable liquid

Upper/lower Flammability: Not determined

Vapor Pressure: Not determined

Vapor Density: Not determined

Relative Density: 1.10 g/cc

Solubility: Miscible with water

Partition Coefficient: Not determined

Auto-ignition Temperature: Not determined

Decomposition temperature: Not determined

Viscosity: Not determined

Section 10 Reactivity Data

Reactivity: Stable.

Conditions to avoid: None known.

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 decomposition products: Hydrogen

Hazardous Polymerization: Will not occur.

Section 11 Toxicity Data

Carcinogen: No.

Routes of Exposure: Inhalation (mist), ingestion, eyes, and skin.

Acute Toxicity Lethal Doses (ATE):

LD50 (oral) 52,631 mg/kg

LC50 (inhl) No data available

LD50 (skin) No data available

Safety Data Sheet

Health Hazards:

Acute: May cause eye irritation. Inhalation of vapor/mist may irritate nose and throat. Ingestion of large quantities may cause nausea.

Chronic: Prolonged and repeated exposures may cause skin irritation. Repeated ingestion or swallowing large amounts may cause internal injury.

Skin Contact: Prolonged or repeated contact may cause mild irritation.

Eye Contact: Direct contact may cause mild eye irritation.

Inhalation (mist): May cause mild irritation.

Ingestion: May cause nausea, abdominal discomfort.

Carcinogen: No.

Aggravation of Pre-existing Conditions: Persons with pre-existing skin, eye, or lung disorders may be more susceptible to the effects of the substance.

Section 12 Ecological Data

Acute (Based on 100% Sodium Silicate)

Acute Toxicity to Fish: LC50 10.4 mg/L (calculated)

Acute Toxicity to Aquatic Invertebrates: LC50 247 mg/L (calculated)

Toxicity to Aquatic Plants: No data available

Toxicity to Microorganisms: No data available

Chronic Toxicity to Fish: No data available

Chronic Toxicity to Aquatic Invertebrates: No data available

Persistence and Degradability: Not persistent in aquatic environments

Bioaccumulation Potential: This material does not bioaccumulate

Mobility in the Soil: Expected to move slowly in soil and water

Other Adverse Effects: None established

Section 13 Disposal Information

Waste Disposal Method: Material is not considered a RCRA Hazardous Waste. Dispose of material in accordance with all Federal, State, and Local regulations.

Section 14 Transport Information

Proper Shipping Name: Non-Regulated Material

Marine Pollutant: No

Section 15 Regulatory Information

SARA 311/312: Acute

CHEMICAL INVENTORIES

All ingredients of this product are listed or are exempt from listing on the U. S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

California Proposition 65 Carcinogens and Reproductive Toxins: None

Canadian WHMIS Classification: Not classified

Section 16 Additional Information

The regulatory information provided is not intended to be comprehensive. Other Federal, State and Local regulations may apply to this material.

DISCLAIMER: Although the information and recommendations set forth herein are presented in good faith and believed to be correct as of the date hereof, manufacturer makes no representations as to the completeness or accuracy thereof.