



Vapourproofing Concrete. Strengthening Foundations.

MOXIE SHIELD MFSII FLOORING SEALER

SAFETY DATA SHEET



1. IDENTIFICATION

Product Name: Moxie Shield MFSII

Product Description: Penetrating concrete sealer

Manufacturer: Moxie International, Inc.

3201 Swetzer Road Loomis, CA 95650 USA

Website: www.moxieshield.com **Telephone:** 888-550-7998

2. HAZARDS IDENTIFICATION



- Emergency Overview: Clear to hazy, odorless to musty smell, liquid. Causes moderate eye, skin, and digestive tract irritation. Spray mist causes irritation to respiratory tract. Due to high pH of product, release into surface water is harmful to aquatic life. Noncombustible. Spills are slippery. Reacts with acids, ammonium salts, reactive metals and some organics.
- Eye Contact: Causes moderate irritation to the eyes.
- Skin Contact: Causes moderate irritation to the skin.
- Inhalation: Spray mist is irritating to the respiratory system.
- Ingestion: May cause irritation to the mouth, esophagus, and stomach.
- Chronic Hazards: No known chronic hazards. Not listed by NTP, IARC or OSHA as a carcinogen.
- Physical Hazards: Dries to form glass film which can easily cut skin. Spilled material is very slippery. Can etch glass if not promptly removed.
- Chemical Name: Inorganic, chemically reactive, hydrous silicate solution, proprietary formulation (CAS #1312-76-1).
 Product contains no materials known to the state of Calfornia to cause cancer, birth defects, or other reproductive toxicity.
- Hazard Rating (NFPA 704 criteria): Health: 1, Fire: 0, Reactivity: 0
- HMIS Rating: Health: 2, Fire: 0, Reactivity: 0

3. PRODUCT COMPOSITION

Chemical and Common Name	CAS Registry Number	Wt. %	OSHA PEL	ACGIH TLV
Water	7732-18-5	>60 %	Not Established	Not Established
Potasium Silicate	1312-76-1	30-60%	Not Established	Not Established
Proprietary additives		<2.0%	Not Established	Not Established

4. FIRST AID MEASURES

- Eye: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
- Skin: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention.
- Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
- Ingestion: If swallowed, DO NOT induce vomiting. Get medical attention immediately. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.

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5. FIRE FIGHTING MEASURES

- Flammable Limits: This material is noncombustible.
- Extinguishing Media: This material is compatible with all extinguishing media.
- Hazards to Firefighters: See Section 2 for information on hazards when this material is present in the area of a fire.
- Firefighting Equipment: The following protective equipment for firefighters 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.

6. ACCIDENTAL RELEASE MEASURES

- Personal Protection: Wear chemical goggles, body-covering protective clothing, chemical resistant gloves, and rubber boots. See Section 8.
- Environmental Hazards: Sinks and mixes with water. High pH of this material is harmful to aquatic life, see Section 12. Only water will evaporate from a spill of this material.
- Small Spill Cleanup: Mop up and neutralize liquid, then discharge to sewer in accordance with federal, state and local regulations or permits.
- Large Spill Cleanup: Keep unnecessary people away; isolate hazard area and deny entry. Do not touch or walk through spilled material. Stop leak if you can do so without risk. Prevent runoff from entering into storm sewers and ditches which lead to natural waterways. Isolate, dike and store discharged material, if possible. Use sand or earth to contain spilled material. If containment is impossible, neutralize contaminated area and flush with large quantities of water.
- CERCLA RQ: There is no CERCLA Reportable Quantity for this material. If a spill goes off-site, notification of state
 and local authorities is recommended.

7. HANDLING AND STORAGE

- Handling: Avoid contact with eyes, skin and clothing. Avoid breathing spray mist. Keep container closed. Promptly clean residue from closures with cloth dampened with water. Promptly clean up spills.
- Storage: Keep containers closed. Store in clean steel or plastic containers. Separate from acids, reactive metals, and ammonium salts. Storage temperature 0-40°C. Do not store in aluminum, fiberglass, copper, brass, zinc or galvanized containers.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

- Engineering Controls: Use with adequate ventilation. Keep containers closed. Safety shower and eyewash fountain should be within direct access.
- Respiratory Protection: Use a NIOSH-approved dust and mist respirator where spray mist occurs. Observe OSHA
 regulations for respirator use (29 CFR 1910.134).
- Skin Protection: Wear body-covering protective clothing and gloves.
- Eye Protection: Wear chemical goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance: Liquid.
- Color: Clear to hazy white.
- Odor: Odorless or musty odor.
- pH: Approximately 11 12.
- Specific Gravity: 1.39 g/cm3 (20°C).
- · Solubility in Water: Yes.

10. STABILITY AND REACTIVITY

- Stability: This material is stable under all conditions of use and storage.
- Conditions to Avoid: None.
- 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: None known.

11. TOXICOLOGICAL INFORMATION

Acute Data: All symptoms of acute toxicity are due to high alkalinity. Material will cause irritation. Oral LD50 (rat) >5000 mg/kg bw. Mist is irritant to the respiratory tract. All symptoms of acute toxicity are due to high alkalinity. Inhalation LC50 (rat) >2.06 g/m³.

Material will cause skin irritation. Dermal LD50 (rat) >5000 mg/kg bw.

Material will cause severe eye irritation. Risk of serious damage to eyes.

Non-sensitizing.

No evidence of genotoxicity.

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12. ECOLOGICAL INFORMATION

- Eco Toxicity: A 96 hour median tolerance for fish (Gambusia affnis) of 2320 ppm; a 96 hour median tolerance for water fleas (Daphnia magna) of 247 ppm; a 96 hour median tolerance for snail eggs (Lymnea) of 632 ppm; and a 96 hour median tolerance for Amphipoda of 160 ppm. This product contains approximately 16.0% sodium silicate.
- Environmental Fate: This material is not persistent in aquatic systems, but its high pH when undiluted or unneutralized is acutely harmful to aquatic life. Diluted material rapidly depolymerizes to yield dissolved silica in a form that is indistinguishable from natural dissolved silica. It does not contribute to BOD. This material does not bioaccumulate except in species that use silica as a structural material such as diatoms and siliceous sponges. Where abnormally low natural silica concentrations exist (less than 0.1 ppm), dissolved silica may be a limiting nutrient for diatoms and a few other aquatic algal species. However, the addition of excess dissolved silica over the limiting concentration will not stimulate the growth of diatom populations; their growth rate is independent of silica concentration once the limiting concentration is exceeded. Neither silica nor sodium will appreciably bioconcentrate up the food chain.
- Physical/Chemical: Sinks and mixes with water. Only water will evaporate from this material.

13. DISPOSAL CONSIDERATIONS

- Classification: Disposed material is not a hazardous waste.
- Disposal Method: Dispose in accordance with federal, state and local regulations and permits.

14. TRANSPORT INFORMATION

• DOT UN Status: This material is not regulated hazardous material for transportation.

15. REGULATORY INFORMATION

• Additional: No additional regulatory information required.

16. OTHER INFORMATION

• Other: No other information necessary.