

SAFETY DATA SHEET

***MOXIE SHIELD 1850***
SHOTCRETE WATERPROOFING ADMIX**SECTION 1: Product and Company Identification****Product name:**

Moxie Shield 1850 Shotcrete Waterproofing Admixture

Recommended use:

Vapor proofing Admixture for Shotcrete

Company:

Moxie International, Inc.

Address:4170 Citrus Ave.
Rocklin, CA 95677
United States of America (USA)**Website:**www.moxieinternational.com**Telephone:**

1-844-845-1975

SECTION 2: Hazard(s) Identification**GHS Classification**

Corrosive to some metals, Category 1

Skin Irritation, Category 2

Eye Irritation, Category 2A

GHS label elements**Hazard Pictograms:**



Signal Word: Warning

Hazard Statements:

H290 May be corrosive to some metals.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary Statements

Prevention:

P234 Keep only in original container.

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/eye protection/face protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P362 Take off contaminated clothing and wash before reuse.

P390 Absorb spillage to prevent material damage.

Storage:

P406 Store in corrosive resistant container with resistant inner liner.

Other Hazards: None Known

SECTION 3: Composition/Information on Ingredients

CAS Number: Trade Secret	All ingredients are non-hazardous and proprietary.
-----------------------------	--

<u>Chemical and Common Name</u>	<u>CAS Registry Number</u>	<u>Wt. %</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Water	7732-18-5	>60%	Not Established	Not Established
Sodium silicate	1344-09-8	30-60%	Not Established	Not Established
Proprietary additives		<2.0%	Not Established	Not Established

Additional Information:

The specific chemical identity and/or exact percentages (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of the OSHA Hazard Communication Standard (29 CFR sec.1910.1200).

SECTION 4: First Aid Measures

In case of skin contact:

- If on skin, rinse well with water.
- If on clothes, remove clothes.
- If skin irritation persists, call a physician.

In case of eye contact:

- Immediately flush eye(s) with plenty of water.
- Remove contact lenses.
- Protect unharmed eye.
- Keep eye wide open while rinsing.
- If eye irritation persists, consult a specialist.

If Swallowed:

- Do not give milk or alcoholic beverages.

SECTION 5: Firefighting Measures

Extinguishing Media

Suitable Extinguishing Media:

- Water mist/fog, carbon dioxide, dry chemical or alcohol resistant foam.

Unsuitable Extinguishing Media:

- Do not use water jet.

Specific Hazards During Fire-Fighting:

- Thermal decomposition may produce irritating and toxic fumes including carbon oxides, silicon oxides and metal oxides.

Special Protective Equipment for Firefighters:

- Fire-fighters should wear appropriate protective equipment.

Special Precautions:

- Avoid contact with skin, eyes, hair and clothing. Do not breathe fumes/gas/mists/aerosols/vapors/dusts. Move containers from fire area if safe to do so.
- Use water spray/fog for cooling fire exposed containers. Avoid unnecessary run-off of extinguishing media which may cause pollution.

SECTION 6: Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures:

- Extinguish any sources of ignition. Wear recommended personal protective equipment (see Section 8). Avoid contact with skin, eyes and clothing. Avoid breathing mist, vapor, dust, fumes and spray. Do not walk through spilled material. Wash thoroughly after handling.

Environmental Precautions:

- Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers, and waterways. Discharge into the environment must be avoided.

Methods and Material for Containment and Cleaning Up:

- Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Stop leak if you can do it without risk. Contain and collect spillage and place in suitable container for future disposal. Dispose of in accordance with all

applicable regulations (see Section 13).

Reference to Other Sections:

For personal protective equipment see Section 8. For disposal see Section 13.

SECTION 7: Handling and Storage

Precautions for Safe Handling:

Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Do not get in eyes. Avoid contact with skin and clothing. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use.

Conditions for Safe Storage, Including Any Incompatibilities:

Store in cool, dry, well-ventilated location out of direct sunlight. Keep away from food and beverages. Protect from freezing and physical damage. Store away from heat, open flames and other sources of ignition. Keep container tightly sealed. Store away from incompatible materials (See Section 10).

SECTION 8: Exposure Controls/Personal Protection

SUBSTANCE: Silicic acid, sodium salt

Occupational Exposure Limits:

No Occupational Exposure Limit Assigned.

Exposure Limit Recommendation:

An exposure limit of 2 mg/m³ (15 min TWA) is recommended by analogy with sodium hydroxide (UK EH40)

Environmental Exposure Controls:

The primary hazard of sodium silicate is high alkalinity. Avoid release to the environment.

Appropriate Engineering Controls:

Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling. Provide adequate ventilation to maintain the airborne concentrations of vapor, mists, and/or dusts below the applicable workplace exposure limits, while observing recognized national safety standards.

Appropriate Personal Protection Equipment (PPE)

Safety Glasses with Side Shields or Goggles

Use safety glasses with side shields or goggles. Consider the use of a face shield for splash protection. Use eye protection equipment that has been tested and approved by recognized national standards (or equivalent).

Gloves, Skin and Body Protection:

Protect the body and skin by wearing impervious gloves and clothing approved by the national safety standards. Gloves should be inspected prior to use. Appropriate techniques should be used to remove used gloves or contaminated clothing to prevent direct contact. If direct contact occurs, wash with soap and water.

Dust Mast/Respirator

Use a NIOSH-approved dust or mist respirator where spray mist occurs. Observe OSHA regulation for respirator use (29 CFR section 1910.134)

General Hygiene

Additional PPE for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Ensure that all personal protective equipment is approved by recognized national safety standards. When handling chemical products, do not eat, drink or smoke. Wash hands after handling, before breaks, and at the end of the workday. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Perform routine housekeeping.

SECTION 9: Physical and Chemical Properties

Appearance	Liquid
Colour	Colorless
Odor	Odorless
Odor Threshold	No data available
pH	11.0 - 11.5
Freezing Point	No data available
Initial Boiling Point/Range	100°C (212°F)
Flash Point	No applicable
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper explosion limit	No data available
Lower explosion limit	No data available
Vapor pressure	No data available
Relative vapor density	No data available
Relative density	No data available
Density	11.5 lbs/gal
Solubilities - Water solubility	Soluble

Solubility in other solvents	No data available
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Thermal decomposition	No data available

SECTION 10: Stability and Reactivity

Reactivity:

No dangerous reaction known under conditions of normal use. No decomposition if stored and applied as directed.

Chemical Stability:

Stable under normal conditions. No decomposition if stored and applied as directed.

Possibility of hazardous reactions:

Can react with some chemically reactive metals, such as aluminum, zinc, magnesium, copper, etc., to release hydrogen gas which can form explosive mixtures with air.

Conditions to avoid:

Keep away from heat, flame, sparks and other ignition sources.

No data available.

Incompatible Materials:

Aluminum

Avoid contact with or storage in aluminum and its alloys.

Tin

Zinc

Ammonium salts

Lead

Strong acids

Glass

SECTION 11: Toxicological Information

Acute Toxicity

Product:

Acute oral toxicity: Acute toxicity estimate: > 5,000 mg/kg

Components:

Acute oral toxicity: LD50 (Rat, male and female): 3,400 mg/kg

Acute inhalation toxicity: LC50 (Rat, male and female): > 2.06 mg/l

Exposure time: 4.4 h

Test atmosphere: dust/mist

Test substance: Information given is based on data obtained from similar substances.

Skin Corrosion/Irritation

Product:

Result: Irritating to skin.

Remarks: May cause skin irritation in susceptible persons.

Carcinogenicity

IARC:

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA:

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP:

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

ACGIH:

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

Further Information

Product:

Remarks: No data available.

SECTION 12: Ecological Information

Ecotoxicity

No data available.

Persistence and degradability

No data available.

Bio-accumulative potential

No data available.

Mobility in soil

No data available.

Other adverse effects

Product:

Ozone-Depletion Potential:

Regulation: 40 CFR Protection of Environment; Part 82
Protection of Stratospheric Ozone - CAA Section 602
Class I Substances

Remarks: This product neither contains, nor was
manufactured with a Class I or Class II ODS as defined
by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt.
A, App. A + B).

Additional ecological infor-
mation

No data available.

SECTION 13: Disposal Considerations

Disposal Methods:

Disposed material is not a hazardous waste. Dispose of in accordance with all applicable local, state and federal regulations. Do not contaminate ponds, waterways or ditches with chemical or used container.

SECTION 14: Transport Information

DOT (Dept of Transportation): Not regulated as a dangerous good.
IATA (Int'l Air Transport Association): Not regulated as a dangerous good.
IMDG-Code: Not regulated as a dangerous good.

SECTION 15: Regulatory Information

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards: Corrosive to metals
Skin corrosion or irritation
Eye irritation

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
This material does not contain any components with a section 302 EHS TPQ.

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act:

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act:

This product does not contain any Hazardous Substances listed under the U.S. Clean Water Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. Clean Water Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307.

US State Regulations
California Prop 65:

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16: Other Information

Abbreviations and Acronyms: None

Disclaimer:

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal 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, unless specified in the text. The responsibility to provide a safe workspace remains with the user.

NFPA: 2-0-0

HMIS: 2-0-0

Initial Preparation Date: 03.25.2022

Revision Date: 09.01.25

IMPORTANT:

The information herein, while not guaranteed, was prepared by technical personnel and is true and accurate to the best of our knowledge. NO WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, OR WARRANTY OR GUARANTY OF ANY OTHER KIND, EXPRESSED OR IMPLIED, IS MADE REGARDING PERFORMANCE, SAFETY, SUITABILITY, STABILITY OR OTHERWISE. This information is not intended to be all-inclusive as to the manner and conditions of use, handling, storage, disposal and other factors that may involve other or additional legal, environmental, safety or performance considerations, and Moxie International assumes no liability whatsoever for the use of or reliance upon this information. The safe handling and use of the product remains the responsibility of the customer. No suggestions for use are intended as, and nothing herein shall be construed as, a recommendation to infringe any existing patents or to violate any Federal, State, local or foreign laws.

End of Safety Data Sheet