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Architectural Concrete Solutions

Bomanite Con-Shield Concentrate

Section 1 Product Description

Product Name: Bomanite Con-Shield Concentrate
Recommended Use: Concrete chemical hardener and densifier
Supplier: The Bomanite Company * PO Box 2649 * Fair Oaks, CA 95628
(303) 369-1115 * www.bomanite.com
Emergency Phone: CHEMTRAC 1-800-424-9300

Section 2 Hazard identification

This product is alkaline. Avoid contact with eyes and skin. Keep out of reach of children.
The product may be harmful if it is inhaled or swallowed.



Signal Word

Warning

Hazard Statements

H303-may be harmful if swallowed.
H312-Harmful in contact with skin.
H319-Causes serious eye irritation.
H333-May be harmful if inhaled.

Precautionary Statements

General:

P101-Keep out of reach of children.
P103-Read label before use.

Prevention:

P202-Do not handle until all safety precautions have been read and understood.
P262-Do not get in eyes, on skin or on clothing.
P264-Wash thoroughly after handling using this product.
P280-Wear protective gloves/protective clothing/eye protection/face protection.
P284-Wear respiratory protection.

Response:

P312-Call a POISON CENTER or doctor/physician if you feel unwell.
P331-DO NOT induce vomiting.
P340, Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P352, Wash with plenty of soap and water.
P362, Take off contaminated clothing and wash before reuse.

Storage:

P403-Store in well-ventilated place.
P404-Store in a closed container.
P412-Do not expose to temperatures exceeding 60 °C (140 °F)

ROUTES OF ENTRY: Eye contact, skin adsorption, ingestion and inhalation.

CARCINOGENICITY: None known at this time.

Section 3 Composition/ Information on Ingredients

	<u>CAS #</u>	<u>Conc. (wt%)</u>
Lithium Silicate	12627-14-4	20-40
Water	7732-18-5	Balance

Section 4 First Aid Measures

Emergency First Aid Procedures

Skin: Use soap and water to remove from the skin, remove contaminated clothing, clean thoroughly before reuse.

Eyes: Flush eyes with water immediately while holding eyelids open. Remove contacts, if worn, after initial flushing and continue flushing for at least 15 minutes. Seek medical attention if irritation persists.

Inhalation: Move to fresh air. If not breathing, give rescue breathing. If breathing is difficult, give oxygen. Seek medical attention if breathing is still difficult.

Ingestion: If swallowed, get medical attention immediately. DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious person.

Section 5 Firefighting Procedures

Extinguishing Media: Dry chemical, carbon dioxide, and water spray.

Flash Point (TCC): non flammable

Flammable Limits (% volume in air for solvents): LEL: Not Determined **UEL:** Not Determined

Special Fire Fighting Procedures: First responders need to wear full-bunker gear with SCBA, never enter a confined space unless fully protected with proper personal protective equipment (PPE). Material is alkaline and may cause the floor to be slippery.

Section 6 Spill or Leak Procedures

Cleanup: Material is alkaline wear proper PPE. Stop the source of the release if you are not put at risk. Use absorbent material (such as sand or kitty litter) to absorb the spill, use plastic shovel to pick up absorbent for disposal.

Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120).

Disposal Regulatory Requirements: Follow applicable Federal, state, and local regulations.

Container Cleaning and Disposal: n/a

Section 7 Handling and Storage

Normal Handling: Do not get into eyes. Do not taste or swallow. Wash thoroughly after handling.

Storage: Store in original labeled container. Keep in cool and dry areas.

Waste Disposal Method: Dispose of material in accordance with federal, state, and local guidelines.

Special Precautions: n/a

Section 8 Protection Information

Respiratory Protection: Wear an approved respirator (NIOSH TC-84A rated or EN 14387) that provides protection from this product if the airborne concentrations exceed the recommended exposure limits.

Ventilation: Use process exposures such as local exhaust ventilation, to control over exposure to airborne levels above recommended exposure limits.

Protective Clothing/Equipment: Long sleeve shirts, long pants, socks, rubber boots and chemical resistant gloves.

Eye Protection: Wear safety goggles or safety glasses to prevent eye contact.

Safety Stations: Make emergency eyewash stations, safety/quick drench showers, and washing facilities available in work area.

Contaminated Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Section 9 Physical Data

Appearance: Clear Liquid

Odor: Nearly Odorless

Odor Threshold: No data available

pH: 11.0

Melting Point: Not determined

Freezing Point: 0 °C (32 °F)

Boiling Point: 212° F (100 °C)

Flash Point: Not Flammable

Evaporation Rate: <1.0

Flammability (solid, gas): Non-flammable under normal conditions

Upper/lower Flammability: N/A

Vapor Pressure: < 2.0 torr @ 68 °F (20 °C)

Density (water=1): 1.036 @ 68°F (20 °C)

Vapor Density (air=1): n/a

Relative Density: n/a
Water Solubility: > 99 % in water
Partition Coefficient: No data available
Auto-ignition Temperature: N/A
Decomposition temperature: Not determined
Viscosity: Not determined
Specific Gravity (H₂O=1, at 4 °C): Not determined
VOC: n/a
% Volatile by Weight: n/a

Section 10 Reactivity Data

Chemical Stability: Considered stable under normal ambient temperatures.
Hazardous Decomposition: If complete combustion, oxides of carbon and silicates are formed.
Hazardous Polymerization: Will not occur.
Incompatibility~ Materials to Avoid: May react with strong oxidizing agents, strong acids and metal salts.

Section 11 Toxicity Data

Routes of Exposure: Inhalation, eyes, and skin.
Acute Eye Irritation: Irritating.
Acute Skin Irritation: Chronic exposure may be irritating.
Acute Dermal Toxicity: Not expected to be toxic through the skin.
Acute Inhalation Toxicity: Not determined, expected to be an irritant to the respiratory system.
Carcinogenic Effects: None
Existing Medical Conditions Aggravated by Exposure: Exposure to eyes and skin may cause irritation to preexisting conditions.

Section 12 Ecological Data

Acute Toxicity to Fish: n/a
Acute Toxicity to Aquatic Invertebrates: n/a
Persistence and Degradability: No data available
Bioaccumulation Potential: n/a
Mobility in the Soil: n/a
Other Adverse Effects: No further information available
Ecotoxicity: The toxicity of this product has not been determined.
Environmental Fate: This product should be expected to be readily biodegradable.

Section 13 Disposal Information

Waste Disposal Method: What ever cannot be saved for recovery or recycling should be managed by the local, state or Federal Regulations.
Container Handling and Disposal: All containers should be triple rinsed and disposed of according to local, state and Federal regulations.

Section 14 Transport Information

Ground Classification: Not regulated by US DOT
Shipping Name: Bomanite Con-Shield Concentrate
Technical Shipping Name: None
UNFIC: None
ID Number: None
Packaging Group: None
Labels: No US DOT Labels
Not regulated by IATA or IMO

Section 15 Regulatory Information

RCRA Hazardous Waste Number (40 CFR 261.33): n/a
SARA311/312: n/a
TSCA: All ingredients listed or exempt from listing.
State Regulations: Consult individual state agency for further information.
California Prop. 65: None.

EPCRA 311/312 Categories: Immediate (Acute) Health Effects: Yes
Delayed (Chronic) Health Effects: Yes
Fire Hazard: No
Sudden Release of Pressure No
Reactivity: No

Right to know classification: All ingredients are listed in CA, FL, MA, MI, MN, PA and NJ.
Reportable Quantity (RQ): None

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.