Material Safety Data Sheet

1. Product and Company Identification

Product Code CP-1301, CP-1305
Product Name BRICKFORM® Pro Lithium Densifier™

Manufacturer .....BRICKFORM, A Division of Solomon Colors, Inc.
Address .....11061 Jersey Blvd.
City, State, Zip.....Rancho Cucamonga, CA 91730
Emergency Phone 800-373-7542
Business Phone.....909-484-3399
Business Fax 877-857-2615

Last Updated January 24, 2011

2. Composition / Information on Ingredients

Chemical Name	CAS No.	Wt. %	OSHA PEL	ACGIH TLV
Water	7732-18-5	>60%	Not Established	Not Established
Silicic acid, lithium salt; lithium silicate	12627-14-4	<40%	Not Established	Not Established

3. Hazards Identification

Emergency Overview: Clear to opalescent, colorless, odorless, liquid. Causes moderate eye irritation, moderate skin irritation, 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 irritating to respiratory tract.
Ingestion: May cause irritation to mouth, esophagus, and stomach.
Chronic hazards: Possible developmental hazard. Contains lithium that may adversely affect the developing fetus. Not listed by NTP, IARC or OSHA as a carcinogen.
Physical hazards: Spilled material is slippery.

4. First Aid Measures

Eye: In case of contact, immediately fl ush eyes with plenty of water for at least 15 minutes. Get medical attention.
Skin: In case of contact, immediately fl ush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention.
Inhalation: Remove to fresh air. If not breathing, give artifi cial respiration. If breathing is diffi cult, 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.

5. Fire Fighting Measures

Flammable limits: This material is noncombustible.
Extinguishing Media: This material is compatible with all extinguishing media.
Hazards to fi re-fighters: See Section 3 for information on hazards when this material is present in the area of a fire.
Fire-fighting 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.

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: Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).
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.
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 plastic containers. Separate from acids, reactive metals, and ammonium salts. Recommended storage temperature 15o-60o C (59o-140o F). Do not store in aluminum, steel, fiberglass, copper, brass, zinc or galvanized containers.

8. Exposure Controls and 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 C.F.R. §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 opalescent white.
Odor: Odorless or musty odor.
pH: Approximately 10.8
Density: 1.2 g/cm3 (20oC); 25o Bé; 10.0 lbs/gal
Solubility in water: Miscible.

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. Absorbs carbon dioxide on exposure to air. 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.

11. Toxicological Information

Acute Data: When tested for primary irritation potential, a similar material caused moderate irritation to the eyes and moderate irritation to the skin.
Subchronic Data: Repeated ingestion or ingestion of large doses of soluble lithium compounds is reported to cause temporary mental function impairment.
Special Studies: Repeated ingestion or ingestion of large doses of soluble lithium compounds during pregnancy is reported to cause fetal abnormalities. Frequent ingestion over extended periods of time of gram quantities of silicates is associated with the formation kidney stones and other siliceous urinary calculi in humans. Lithium silicate is not listed by IARC, NTP or OSHA as a carcinogen.

12. Ecological Information

Eco toxicity: This product has not been tested for ecotoxicity potential.
Environmental Fate: The high pH of this material may be acutely harmful to aquatic life. It does not contribute to BOD.
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. Transportation Information

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

15. Regulatory Information

CERCLA: No CERCLA Reportable Quantity has been established for this material.
SARA TITLE III: Not an Extremely Hazardous Substance under §302. Not a Toxic Chemical under §313. Hazard Categories under §§311/312: Acute
TSCA: All ingredients of this material are listed on the TSCA inventory.

16. Other Information

IMPORTANT! Read this MSDS before use or disposal of this product. Pass along the information to employees and any other persons who could be exposed to the product to be sure that they are aware of the information before use or other exposure.

This MSDS has been prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200). To the best of our knowledge, the information contained herein is accurate and the information is based on sources believed to be reliable. However, since data, safety standards, and government regulations are subject to change, BRICKFORM makes no warranty, either expressed or implied with respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon. The data on this sheet is related only to this specific material. It may not be valid for this material if used in combination with any other materials. It is the user's responsibility to determine suitability and completeness of this information with regards to a particular use. Additional information may be necessary or helpful for specific conditions and circumstances of use. Unknown hazards may exist and this material should be used with caution. BRICKFORM assumes no legal responsibility for use or reliance upon this data.