

# MATERIAL SAFETY DATA SHEET

Date Prepared August 15, 2007, Revised 03/25/2008

Complies with OSHA's Hazard Communication Standard, 29 CFR 1910.1200

Page 1 of 3

## SECTION I: PRODUCT IDENTIFICATION

**Identify:** **Lythic Densifier - Concrete Hardener & Densifier**  
**Amorphous Silicon Dioxide, Colloidal Silica Dispersion**

**Manufacturer:** Lythic Solutions, Inc.  
3012 NE Minnehaha Street  
Vancouver, WA 98663

**Phone:** (360) 694-5347

**Emergency:** CHEMTREC 800-424-9300

**HMIS Codes:**

Health Hazard	Fire Hazard	Reactivity	Personal Protection
1	0	0	B

## SECTION II: MATERIAL COMPOSITION INFORMATION

TWA  
Exposure Limits, PPM

<u>Ingredient</u>	<u>CAS #</u>	<u>OSHA</u>	<u>ACGIH</u>	<u>Canada</u>
*Silica, Amorphous, Precipitated	7631-86-9	80a	10b	5, 2c

**Comments:** a: OSHA - 80 mg/M<sup>3</sup> / % SiO<sub>2</sub>.  
b: The value is for total dust containing no asbestos and < 1% crystalline silica.  
c: The first value is for total mass, the second value is for respirable mass.  
d: OSHA - The first value is for total dust, the second value is for the respirable fraction.  
e: ACGIH - The value is for inhalation (total) dust/ particulate.  
\*: Nuisance Particulate

## SECTION III: HAZARD IDENTIFICATION

**Permissible exposure limit:** None established for this product.

**OSHA exposure limit:** None established for this product.

**Primary routes of entry:** Ingestion, Inhalation, eye contact.

**Effects of overexposure:** **Ingestion:** No Known Effects, consult a physician  
**Inhalation:** May cause irritation of upper respiratory tract.  
**Eye Contact:** May cause irritation.

**This Product does not contain any substance listed as a carcinogen by NTP, IARC, or OSHA.**

## SECTION IV: FIRST AID MEASURES

**Routes of Entry:** Ingestion, Inhalation, Eye, or Skin contact.

**Ingestion:** Not expected to be toxic. Never give an unconscious person anything to ingest. If swallowed, immediately give two glasses of water, Seek Medical attention if ill effects develop.

**Inhalation:** May cause irritation. Remove to fresh air and provide oxygen. If not breathing, give artificial respiration. Seek medical attention if irritation persists.

**Eye Contact:** In case of contact, flush with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.

**Skin Contact:** May cause irritation. Wash affected area with soap and water. Remove contaminated clothing and shoes. Seek medical attention if irritation persists.

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**SECTION V: FIRE FIGHTING MEASURES**

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**Flash Point:** Will not flash      **Unusual fire and explosion hazards:** None  
**LEL:** Not applicable      **Special fire fighting procedures:** None  
**UEL:** Not applicable  
**Flammability class:** Not applicable  
**Extinguishing media:** Not applicable  
**Special Fire Fighting Procedures:** None

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**SECTION VI: ACCIDENTAL RELEASE MEASURES**

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Steps to be taken in case material is released or spilled:

**Spill -** Absorb with an inert material and place in an appropriate waste disposal container.

**Waste Disposal Method:** Sanitary landfill or sewer. Observe all environmental regulations, Federal, State, and Local regulations.

**THIS PRODUCT WHEN SPILLED OR DISPOSED OF IS A NON-HAZARDOUS WASTE AS DEFINED IN RCRA REGULATION (40CFR 261).**

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**SECTION VII: HANDLING AND STORAGE**

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**General Handling:**

Avoid breathing vapor, aerosol and mist.

Do not swallow.

Keep container closed.

Use with adequate ventilation.

Wash thoroughly after handling

FOR INDUSTRIAL USE ONLY

**Ventilation:**

General mechanical room ventilation is expected to be satisfactory if handled at low temperatures or in covered equipment.

Local ventilation is needed in the presence of airborne mists.

**Storage:**

Product may freeze if stored below 32°F. Product damage will occur if frozen.

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**SECTION VIII: EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**Ventilation:** Use adequate ventilation to keep airborne concentrations below the exposure standard.

**Respiratory Protection:** Use respirator in heavy mist locations.

**Other Personal Protection:** Use as desired.

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**SECTION IX: PHYSICAL AND CHEMICAL CHARACTERISTICS**

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<b>Volatile Component</b>	Water	<b>Freeze Point</b>	32°F
<b>Boiling Point</b>	212° F	<b>pH</b>	8.7-10
<b>Evaporation Rate</b>	Same as Water	<b>Odor</b>	Mild
<b>Vapor Pressure</b>	Same as Water	<b>Appearance</b>	Milky Fluid
<b>Vapor Density</b>	Unavailable	<b>Specific Gravity</b>	1.11 +/- 0.05
<b>V.O.C.</b>	None	<b>Weight per Gallon</b>	9.2-9.3 lbs
<b>Solubility in Water</b>	Infinite		

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**SECTION X: STABILITY/REACTIVITY**

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Stability: Stable

Incompatibility: Acidic, Cationic, and salt materials may gel the product.

Conditions to avoid: Do not mix with other material unless advised by supplier. Freezing conditions will damage product.

Hazardous decomposition products: None.

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**SECTION XI: TOXICOLOGICAL INFORMATION**

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NOT ESTABLISHED

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**SECTION XII: ECOLOGICAL INFORMATION**

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NOT APPLICABLE

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**SECTION XIII: DISPOSAL CONSIDERATIONS**

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Dispose in accordance with applicable Federal, State, Provincial, and local environmental regulations.

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**SECTION XIV: TRANSPORT INFORMATION**

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NOT REGULATED

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**SECTION XV: REGULATORY INFORMATION**

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Do not mix this product with other materials unless advised by the supplier.

Proposition 65 California: This product does not contain any chemicals known to the state of California to cause cancer, birth defects, or other reproductive harm.

All chemicals in this product are listed on both the DSL and TSCA inventory lists for Canada and the United States and are in compliance with those regulations.

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**SECTION XVI: OTHER INFORMATION**

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The facts and recommendations contained herein are based on our own research and the research of others, and are believed to be accurate. No guarantee of their accuracy is made as we cannot cover every possible application for our products, nor anticipate variations encountered in manufacturing equipment and methods. Products discussed are sold without warranty, express or implied and on the condition that purchasers shall make their own determination as to the suitability of such products for their particular purposes. Seller shall not be liable for any injury, loss, or damage, direct or consequential arising from the use or inability to use the product. Statements concerning the possible use of our products are not intended as recommendations to use our products in the infringement of any patents.

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