

# MATERIAL SAFETY DATA SHEET

Date Prepared June 8, 2007, Revised 03/25/2008

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

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## SECTION I: PRODUCT IDENTIFICATION

**Identify:** Lythic Cleaner- Floor Cleaner

**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
2	1	0	C

## SECTION II: MATERIAL COMPOSITION INFORMATION

Ingredient	CAS #	Wt%	LD50 (rats)	TWA Exposure Limits, PPM		
				OSHA OSHA PEL ppm TWA STEL	ACGIH ACGIH TLV ppm TWA STEL	Canada
Triethanolamine	102-71-6	1 to 10	5000-9500	N/A N/A	5 N/A	
2-Butoxyethanol	111-76-2	5 to 8	2500 Skin	25 N/A	25 N/A	
*Silica, Amorphous, Precipitated	112926-00-8	1 to 5		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

**Primary Routes of Exposure:** Inhalation, Skin Absorption, Ingestion

**Acute Effects From Short Term Exposure:**

**Inhalation:** Mists may irritate nose, throat, and lungs, (burning, stinging, coughing). May cause headache, dizziness, nausea, weakness, shortness of breath.

**Eyes:** Contact with the liquid may cause possible burns and transient corneal damage.

**Skin:** Contact causes severe irritation (dryness, itching, cracking, rash, swelling), and possible burns.

**Swallowing:** Ingestion of this product may be harmful or fatal.

**Chronic Effects From Long Term /Repeated Exposure:** Long term or repeated over exposure without proper ventilation or personal protection may cause nasal and respiratory irritations, and repeated contact with skin may cause irritation or be absorbed in harmful amounts.

**Target Organs:** Liver, Kidneys, Lymphoid System, Skin, Blood, Eyes, Respiratory System

**Emergency and First Aid Procedures:**

**Swallowing:** If person is conscious, give ½ glass of milk or water, do not induce vomiting, Call poison center Emergency Room, or Physician immediately, and never give anything orally to an unconscious or convulsing person.

**Inhalation:** Remove from exposure to fresh air, if breathing is difficult, give oxygen, if breathing has stopped, give artificial respiration. Keep person calm and quiet, Get medical attention immediately,

**Eye:** Immediately flush with plenty of water for 15 minutes. Seek medical attention. Skin Contact: Flush affected area with plenty of water.

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## SECTION IV: FIRST AID MEASURES

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**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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**OSHA Flammability Class:**

Bulk Product Flash Point: ". 160°F

Flammable Limits in Air By Volume: LEL = N/A, VEL = N/A

Extinguishing Media: Foam, CO2, Dry Chemical, Water Fog

**Special Fire Fighting Procedures:** Evacuate all unnecessary personnel. Use full protective equipment, including self-contained breathing apparatus. Use water spray, preferably fog, to cool closed containers to prevent pressure build up and possible explosion,

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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 (Indoor /Enclosed Areas):** Provide general mechanical ventilation or local exhaust to keep vapor concentrations below the PEL's and TLV's in Section II.

**Hand Protection:** When necessary wear impermeable gloves to prevent skin contact.

**Eye Protection:** When necessary wear eye protection designed to protect the eyes from liquid splash or mists. Note: contact lenses may contribute to the severity of an eye injury and should not be worn when working around chemicals.

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

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**Work/Hygienic Practices:** Eye washes and safety showers are recommended in the work place. Wash hands after using, before eating, drinking, or using tobacco products. Periodically monitor exposure levels to hazardous ingredients listed in Section II and review permissible limits.

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**SECTION IX: PHYSICAL AND CHEMICAL CHARACTERISTICS**

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pH - 9.4-9.9	Specific Vapor Density - N/A	V.O.C - 96 grams per liter
Boiling Point - 212° F	Specific Gravity - 1.01-1.03	
Freeze Point - 32°F	Percent Volatile - 85-90% as Water	
Vapor Pressure - 17 mm Hg	Odor - Glycol Ether	
Appearance - Clear Liquid	Stability in Water - Soluble in Water	

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**SECTION X: STABILITY/REACTIVITY**

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**Stability:** Stable

**Hazardous Polymerization:** Will Not Occur

**Incompatibility:** Strong Oxidizing Agents, Acids

**Hazardous Decomposition Products:** Carbon Dioxide, Carbon Monoxide

**Conditions to Avoid:** High Temperature, Ignition Source

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

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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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