



# Material Safety Data Sheet

Date Prepared October 1, 2012, revised May 30, 2013

Page 1 of 5

## SECTION 1: PRODUCT IDENTIFICATION

**Product Name:** Lythic Cleaner

**Distributor:** Lythic Solutions, Inc.  
PO Box 5028  
Vancouver, WA 98668

**Phone:** 888-598-4421

**Description:** Physical Form: Liquid  
Color: Tinted, Pink  
Odor: Slight

**HMIS Codes:**

Health Hazard	Fire Hazard	Physical Hazard
1	0	0

## SECTION 2: MATERIAL COMPOSITION INFORMATION

Ingredient	%	CAS #	APPLICABLE EXPOSURE LIMITS		
			OSHA	ACGIH	OTHER
Triethanolamine	5-20%	102-71-6	N/A	N/A	
Glycol Ether DB	5-15%	112-34-5	50 ppm	20 ppm	
Silica, Amorphous	4-6%	112926-00-8	80 mg/m <sup>3</sup>	10 ppm	

## SECTION 3: HEALTH HAZARDS

Routes of Exposure: Eye Contact, Skin Contact, Ingestion, Inhalation

Exposure Standards: No exposure standards established for the product. Maintain contaminant concentrations in the workplace at the lowest feasible levels.

**Potential Health Hazards:**

**Acute:**

Eye: 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.

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

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

---

### SECTION 3: HEALTH HAZARDS (CONTINUED)

---

Potential Health Hazards (continued):

Prolonged:

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

Medical Conditions Generally Aggravated by Exposure: Persons with pre-existing skin, eye, or lung disorders may be more susceptible to the effects of the substance.

Carcinogens: This product contains no carcinogens in concentrations of 0.1 percent or greater as defined by OSHA, ACGIH, IARC, or other body.

---

### SECTION 4: FIRST AID MEASURES

---

**Eye Contact:** Hold eyelids apart and immediately flush eyes with lukewarm water for at least 15 minutes. If contact lens is present, DO NOT delay irrigation or attempt to remove the lens. Call a physician 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.

**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.

Notes to Physician: Treat according to person's condition and specifics of exposure.

---

### SECTION 5: FIRE AND EXPLOSION DATA

---

Flash Point: > 212 °F / > 100 °C (Closed Cup)

Autoignition Temperature: Not determined

Flammability Limits in Air: Not determined

Suitable Extinguishing Media: On large fires use dry chemical, foam or water spray. On small fires use carbon dioxide (CO<sub>2</sub>), dry chemical or water spray. Water can be used to cool fire exposed containers.

Special Firefighting Procedures: Firefighters wear NIOSH approved self-contained breathing apparatus. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.

Unusual Fire Hazards: None.

---

## SECTION 6: ACCIDENTAL RELEASE MEASURES

---

**Containment Procedures:** Stop the leak and absorb spill. Ventilate the space involved. Shut off or remove all ignition sources if possible. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Use recommended personal protective clothing and equipment.

**Methods for Cleanup and Disposal:** Do not allow material to run off work area, excess material should be absorbed or vacuumed and disposed of in accordance with regulations. Dispose of material in accordance with federal, state, and local guidelines. Place spilled material in an appropriate container for disposal.

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

---

## SECTION 7: HANDLING AND STORAGE

---

**Handling:** Avoid contact with skin or eyes. Avoid breathing vapor, mist, dust, or fumes. Use with adequate ventilation. Do not Swallow.

**Storage:** Keep in cool, dry, ventilated storage. Keep containers tightly closed when not in use. Product may freeze if stored below 32°F. Product damage may occur if frozen.

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

**Special Precautions:** Avoid breathing mist. Keep from freezing. Adhere to work practice rules established by government regulations (e.g. OSHA).

---

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

---

**Ventilation:** Provide adequate mechanical ventilation to keep exposure levels below TLV's.

**Respiratory Protection:** Use NIOSH-approved organic vapor respirator when exposure levels can't be kept below limits.

**Inhalation:** Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn.

**Protective Gloves:** Use impermeable gloves to prevent skin contact.

**Eye Protection:** 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.

**Other Protective Clothing or Equipment:** As needed to prevent repeated/prolonged contact.

**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.

---

SECTION 9: PHYSICAL AND CHEMICAL CHARACTERISTICS

---

Form: Liquid	pH: 9.5-10.5
Color: tinted, pink	Flash Point: > 212 °F / > 100 °C (Closed Cup)
Odor: Slight odor	Boiling Point: 100°C
Vapor Pressure: 17mm Hg	Freezing Point: 0°C
Vapor Density: not determined	Water Solubility: Miscible
Specific Gravity: 1.01 - 1.03	VOC Content: 17g/l concentrated form, exclusive of water and exempt components

---

SECTION 10: STABILITY/REACTIVITY

---

Stability: Stable under normal conditions

Incompatibilities (Materials to avoid): Strong oxidizing agents, acids

Hazardous Decomposition Products: Carbon dioxide, Carbon monoxide  
(from burning, heating or reaction with other materials)

Conditions to avoid: High Temperature, Ignition source

Hazardous Polymerization: Hazardous polymerization will not occur.

---

SECTION 11: TOXICOLOGICAL INFORMATION

---

Not Established

---

SECTION 12: ECOLOGICAL INFORMATION

---

Not Established / Not Available

---

SECTION 13: DISPOSAL CONSIDERATIONS

---

Waste Disposal : Dispose of container and unused contents in accordance with federal, state, and local requirements.

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

---

SECTION 14: TRANSPORT INFORMATION

---

DOT / IATA: Not dangerous goods. Not regulated

---

SECTION 15: REGULATORY INFORMATION

---

**US FEDERAL REGULATIONS**

TOXIC SUBSTANCES CONTROL ACT (TSCA): The components of this product are included on the inventory list.

SUPERFUND AMENDMENTS and REAUTHORIZATION ACT OF 1986 (SARA) TITLE III:

Section 301 – 304 require emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable Quantities (RQs) in 40 CFR 355. Components present in this product at a level which could require reporting under this statute:

None Present or none present in reportable quantities

Sections 311 – 312 require products be reviewed and applicable EPA Hazard Definitions be identified and made known.

Acute Health Hazard, Chronic Health Hazard

Section 313 requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372 (for SARA 313).

This information must be included in all MSDS's that are copied and distributed for this material. Components present in this product at level which could require reporting under the statute are:

None

**STATE REGULATIONS**

**California**

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.

---

SECTION 16: OTHER INFORMATION

---

Disclaimer: 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.