

**SAFETY DATA SHEET**  
**LITHOLYME**

**PART NO: S232-105-001 Rev. F**  
**SDS DATE: MAY 19, 2016**

**SECTION 1: PRODUCT & COMPANY IDENTIFICATION**

**Product Name:** Litholyme  
**Product Use:** CO<sub>2</sub> absorbent  
**Product Codes:** 55-01-0013, 55-01-0014, 55-01-0015, 55-01-0016, 55-01-0017, 55-01-18, 55-01-0019

**Manufacturer:** Allied Healthcare Products, Inc.  
**Address:** 1720 Sublette Avenue, St. Louis, MO 63110

**Emergency Phone:** 314-771-2400  
**CHEMTREC Phone:** 800-262-8200  
**Other Calls:** N/A  
**FAX:** 314-268-1767  
**Restrictions on use:** N/A

**SECTION 2: HAZARDS IDENTIFICATION**



**Primary hazard:** Minor to severe eye, skin, and respiratory tract irritation; harmful if ingested  
**Physical Hazards:** N/A  
**Environmental Hazards:** N/A  
**Hazard Statements:** Causes eye irritation  
 Causes skin irritation  
 Harmful if swallowed  
 May cause respiratory irritation

**Signal Word:** Warning

**SECTION 3: COMPOSITION & INFORMATION ON INGREDIENTS**

INGREDIENT	CAS NO.	%WT
Calcium hydroxide	1305-62-0	>75%
Lithium chloride	7447-41-8	<3%
Ethyl violet indicator	2390-59-2	<1%

**SECTION 4: FIRST AID MEASURES**

**Inhalation:** Remove from exposure and to fresh air. Seek medical attention.  
**Eyes:** Flush eyes with copious amounts of water for at least 15 minutes while holding eyelids open. Seek medical attention if irritation persists.  
**Skin:** Remove loose or excess product from the skin. Remove contaminated clothing and wash before reuse. Wash affected skin with copious amounts of soap and water. Seek medical attention if irritation persists.  
**Ingestion:** Wash out mouth thoroughly. Seek medical attention.

**SECTION 5: FIRE-FIGHTING MEASURES**

**NFPA Hazard Classification**

Health	2
Flammability	0
Reactivity	0
Other	0

**Extinguishing Media:** Water, foam, CO<sub>2</sub>, powder  
**Special Fire-fighting Procedures:** Breathing apparatus may be necessary  
**Unusual Fire & Explosion Hazards:** Material is non-combustible. Packaging may be combustible.  
**Hazardous Decomposition Products:** N/A



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### SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid inhaling dust; avoid skin and eye contact.  
Environmental Precautions: N/A  
Recovery: Contain material. Sweep or vacuum up.

### SECTION 7: HANDLING & STORAGE

Handling: Avoid contact with eyes, skin, and clothing. Keep containers tightly closed when not in use. Avoid breathing dust. Wash hands thoroughly after use.  
Storage: Store in a clean dry environment. Avoid direct sunlight. Keep containers closed. Preferred temperature range: -30° F to 140° F (-34.4° C to 60° C).

### SECTION 8: EXPOSURE CONTROLS & PERSONAL PROTECTION

Engineering controls: Provide exhaust ventilation or other engineering controls to keep airborne dusts below their respective threshold limit values.  
Respiratory Protection: Nuisance dust mask recommended as defined in 29 Code of Federal Regulations (CFR) 1910.0000.  
Eye Protection: Safety goggles to protect against dust recommended.  
Skin Protection: General-purpose rubber gloves recommended.  
Hygiene: Wash hands with soap and water.

#### OCCUPATIONAL EXPOSURE LIMITS (EH 40):

Component	ACGIH TLV (mg/m <sup>3</sup> )	OSHA PEL (mg/m <sup>3</sup> )
Calcium hydroxide	5	15 total
		5 respirable fraction
Lithium chloride	5	15 total
		5 respirable fraction

### SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

Physical State: Solid  
Appearance: White to blue-white granules  
Odor: None  
Boiling Point: N/A  
Vapor Pressure (mmHg): N/A  
Vapor Density: N/A  
Melting Point: N/A  
Specific Gravity (H<sub>2</sub>O = 1): 2.0  
pH as Supplied: 12-12.25  
Solubility in Water: Slight  
Evaporation Rate (Butyl Acetate=1): N/A  
% Vaporizable by volume (H<sub>2</sub>O=100): N/A

### SECTION 10: STABILITY & REACTIVITY

Stability: Stable  
Conditions to Avoid (stability): N/A  
Incompatibility (material to avoid): Avoid contact with chloroform or trichloroethylene (Trilene).  
Decomposition or Byproducts: Converts to calcium and lithium carbonates when exposed to air. Heat is generated when exposed to acids.  
Hazardous Polymerization: Will not occur.



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**SECTION 11: TOXICOLOGICAL INFORMATION**

**HEALTH EFFECTS**

Route of Exposure	Potential Health Effects	Acute Health Hazards
Eyes:	May cause minor to severe eye irritation	Redness, tearing, irritation
Skin:	May cause minor to severe skin irritation	Redness, dryness, rash
Ingestion:	Harmful if ingested	Harmful if ingested
Inhalation:	Dust may cause irritation of the throat, nose and respiratory system	Shortness of breath, sore throat and nose

Calcium Hydroxide: LD (50) = 7.3 g/kg rat  
Lithium Chloride: LD (50) = 526 mg/kg rat

This product is not listed by the National Toxicology Program (NTP) or International Agency for Research on Cancer (IARC); Refer to Section 15.

**SECTION 12: ECOLOGICAL INFORMATION**

Ecotoxicity: No risk of prolonged damage to animal or plant life  
Mobility: Converts to naturally occurring minerals

**SECTION 13: DISPOSAL CONSIDERATIONS**

Waste Disposal Method: May require disposal by a licensed contractor and carrier. Check local ordinances. Should be disposed of as non-contaminated clinical waste.  
RCRA Hazard Class: Non-hazardous as defined by Resource Conservation and Recovery Act (RCRA) 40 CFR 261

**SECTION 14: TRANSPORT INFORMATION**

Transport Classification: Not classified as hazardous for transport by land, sea or air.  
Proper Shipping Name: Litholyme  
UN Number: N/A  
Hazard Class: N/A  
Packing Group: N/A  
Label Statement: N/A

**SECTION 15: REGULATORY INFORMATION**

**U.S. Federal Regulations**  
TSCA (Toxic Substance Control Act): YES  
CERCLA (Comprehensive Response Compensation & Liability Act): YES  
SARA Title III (Superfund Amendments & Reauthorization Act): N/A  
Section 302 Extreme Hazardous Substance List: N/A  
311/312 Hazard Categories: N/A  
313 Reportable Ingredients: N/A  
State Regulations: YES  
International Regulations: YES



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**SECTION 16: OTHER INFORMATION**

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**Non-Hazardous Ingredient Disclosure:**

<u>Chemical Name</u>	<u>CAS Number</u>	<u>%WT</u>
Water	007732-18-5	12-19%

**DISCLAIMER:**

The information in this safety sheet is based on best knowledge available at the time and current national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular application. As the specific conditions of use are outside the control of the supplier, the user is responsible for ensuring that the product is used in a safe manner and the requirements of relevant legislation are complied with.

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