

SAFETY DATA SHEET

LITHOLYME

PART NO: S232-105-001 Rev. G
SDS DATE: AUGUST 21, 2023

SECTION 1: PRODUCT & COMPANY IDENTIFICATION

Product Name: Litholyme
Product Use: CO₂ 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 Medical LLC.
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, CO₂, powder
Special Fire-fighting Procedures: Breathing apparatus may be necessary
Unusual Fire & Explosion Hazards: Material is non-combustible. Packaging may be combustible.



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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 ³)	OSHA PEL (mg/m ³)
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 (H₂O = 1): 2.0
pH as Supplied: 12-12.25
Solubility in Water: Slight
Evaporation Rate (Butyl Acetate=1): N/A
% Vaporizable by volume (H₂O=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

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.
