

GELEST, INC.

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MATERIAL SAFETY
DATA SHEET

EMERGENCY TELEPHONE
CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: **LITHIUM 2,4-PENTANEDIONATE - AKL470**

CHEMICAL NAME: LITHIUM 2,4-PENTANEDIONATE

SYNONYMS: LITHIUM ACETYLACETONATE

CHEMICAL FAMILY: METAL DIKETONATE

FORMULA: C₅H₇O₂Li

HMIS CODES HEALTH: 3 FLAMMABILITY: 2 REACTIVITY: 1

IDENTITY	CAS NO.	INGREDIENTS %	TLV	OSHA PEL
LITHIUM 2,4-PENTANEDIONATE	18115-70-3 / 19185-99-0	>95		not established

Boiling Point: NA	Melting Point: 250°s
Specific Gravity: not determined	Vapor Pressure: N/A
Vapor Density (air =1): NA	Solubility in water: soluble
% volatiles: <3%	Evaporation rate: NA
Molecular Weight: 106.05	Other: NA
Appearance & Color: Off-white to light- brown powder.	

FIRE & EXPLOSION DATA

Flash Point, COC: NA Autoignition Temp.: not determined
Flammability Limits- LEL: NA UEL: NA

Extinguishing Media: Dry chemical extinguisher, dry soda ash, or dry sodium chloride.

Special Fire Fighting Procedures: Protect against caustic dust, smoke and water. Wear pressure demand self-contained breathing apparatus with full facepiece and full protective clothing.

Unusual Fire and Explosion Hazards: Irritating fumes and caustic vapors may develop when material is exposed to elevated temperatures or open flame.

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ENVIRONMENTAL INFORMATION

Spill response: Ventilate area. Eliminate ignition sources. Scoop material into a dry metal container and cover loosely.

Recommended disposal: Incinerate. Follow all chemical pollution control regulations.

HEALTH HAZARD DATA

Eye Contact: Lithium pentanedionate may cause immediate or delayed burns to the eyes.

Skin contact: May cause irritation and caustic burns.

Inhalation: Inhalation will cause sneezing, irritation and burns.

Oral Toxicity: not determined

Inhalation Toxicity: not determined

SUGGESTED FIRST AID

EYES: In case of contact, immediately flush eyes with flowing water for at least 15 minutes, holding eyes open. Get medical attention.

SKIN: Immediately shake or brush off any loose material, then flush with water for at least fifteen minutes.

INHALATION: Move exposed individual to fresh air. Administer oxygen if needed. Call a physician.

INGESTION: Never give fluids or induce vomiting if patient is unconscious or having convulsions.

REACTIVITY DATA

Stability: Stable under nitrogen or argon in sealed containers.

Conditions to avoid: Material decomposes slowly in contact with moist air and rapidly in contact with water.

Hazardous decomposition products: Lithium hydroxide and caustic organic vapors.

SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust is required. Mechanical is recommended.

Respiratory Protection: If exposure exceeds TLV, a NIOSH approved particulate filter-type respirator should be worn.

Eye and Face Protection: Chemical worker's goggles. Do not wear contact lenses.

Other Clothing and Equipment: Rubber, neoprene or nitrile gloves. An eyewash and emergency shower should be available. Launder clothing before reuse.

OTHER PRECAUTIONS

For research use only.

Storage and Handling: Store under dry nitrogen or argon in sealed containers.

TRANSPORTATION

DOT SHIPPING NAME: CHEMICALS NOI
DOT HAZARD CLASS: NONE REQUIRED
DOT LABELS: NONE REQUIRED
DOT ID No: NONE REQUIRED

Prepared by safety and environmental affairs ISSUE DATE AKL470: 4/15/09
SUPERSEDES: 1/13/03

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