

Safety Data Sheet

Revision Number 0

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product name Calcium Hardness

Tablet

Other means of identification

Product Code(s) 6846A UN-No 3262

Recommended use of the chemical and restrictions on use

Recommended UseUse as a laboratory reagent. Industrial (not for food or food contact use).

Details of the supplier of the safety data sheet

Manufacturer Address LaMotte Company, Inc. 802 Washington Avenue

P.O. Box 329

Chestertown, MD 21620 USA

T 410-778-3100 F 410-778-9748

Emergency telephone numbers

(CHEM-TEL):USA, Canada, Puerto Rico 1-800-255-3924 Outside North American Continent (Call collect) 813-248-0585

2. HAZARDS IDENTIFICATION

Acute toxicity - Oral	Category 4
Serious eye damage/eye irritation	Category 2

EMERGENCY OVERVIEW

WARNING

Hazard statements

Harmful if swallowed. Causes serious eye irritation.



Appearance light pink with white specks

Physical state Tablet ~0.1g (100mg)

Odor Odorless

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear eye/face protection. Keep out of the reach of children.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Rinse mouth. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

Storage:

Store in a well-ventilated place. Keep cool.

Disposal:

Dispose of contents/container to an approved waste disposal plant.

Other Hazards

Harmful to aquatic life with long lasting effects.

Unknown Acute Toxicity

4% of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS*

Chemical name	CAS No.	Weight-%
Lithium hydroxide	1310-65-2	10
Sodium carbonate*	497-19-8	10-15

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret.

All ingredients may not be listed. Ingredients not listed do not meet the reporting requirements of the OSHA Hazard Communication Standard (HCS) as specified in 29 CFR 1910.1200.

4. FIRST AID MEASURES

First Aid Measures

General advice Do not get in eyes, on skin, or on clothing.

Eye contact Immediately flush eyes with gentle stream of water for at least 15 minutes, occasionally

lifting upper and lower eyelids. If irritation persists or develops, contact a physician.

Skin contact Wash off with warm water and soap. If irritation develops or persists, consult physician.

Inhalation Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial

respiration and contact emergency personnel.

Ingestion Drink plenty of water. Clean mouth with water. If gastrointestinal distress occurs contact

physician. Consult a physician. Rinse mouth.

<u>Self-protection of the first aider</u> Use personal protective equipment. See section 8 for more information. Do not use

mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory

medical device.

5. FIREFIGHTING MEASURES

Suitable extinguishing media

Water spray, dry chemical, carbon dioxide (CO₂), or foam.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions See section 8. Avoid contact with the skin and the eyes.

Environmental precautionsNo special environmental precautions required. See Section 12 for additional Ecological

Information. Beware of vapors accumulating to form explosive concentrations. Vapors can

accumulate in low areas.

Methods and material for containment and cleaning up

Methods for containmentSweep up in a manner that does not dispurse dust and shovel into suitable containers for

disposal.

Methods for cleaning up Containerize spill material and hold for later disposal. If local regulations permit, dissolve

with large volume of water, neutralize with dilute acid (acetic, hydrochloric), then rinse to

drain with excess water. After cleaning, flush away traces with water.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Prevent contact with

skin, eyes, and clothing. Do not taste or swallow. Do not eat, drink, or smoke when using

this product.

Conditions for safe storage, including any incompatibilities

Storage: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from

direct sunlight. Keep away from heat, moisture, and incompatibles. Keep out of the reach of

children.

Incompatible Products Strong acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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Control parameters

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Lithium hydroxide 1310-65-2	*_	*_	Not Established
Sodium carbonate* 497-19-8	*_	*_	Not Established

Appropriate engineering controls

Engineering Measures None under normal use conditions. For home use.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Wear safety glasses with side shields (or goggles).

Skin and body protection Wear latex or nitrile gloves.

Respiratory protection None required under normal usage.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

eyes, skin and clothing. Wear suitable gloves and eye/face protection. Wash hands and face before breaks and immediately after handling the product. Do not eat, drink or smoke

when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Tablet ~0.1g (100mg)

Appearance light pink with white specks Odor Odorless

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH 12 (1 tablet in 10mL of water)

Melting point / freezing point

No information available

No information available

Flash point Not Applicable

Evaporation rate

Flammability (solid, gas) No information available

Flammability Limit in Air

Upper flammability limit:
Lower flammability limit:
Vapor pressure
Vapor density
Specific gravity

No information available
No information available
No information available
No information available

Water solubility Soluble in water

Solubility in other solvents No information available **Partition coefficient** No information available No information available **Autoignition temperature Decomposition temperature** No information available Kinematic viscosity No information available **Dynamic viscosity** No information available **Explosive properties** No information available **Oxidizing properties** No information available

Other Information

Softening point
Molecular weight
VOC Content (%)
Density
No information available

10. STABILITY AND REACTIVITY

Stability Stable.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid Exposure to air or moisture over prolonged periods. Extremes of temperature and direct

sunlight.

Incompatible materials Strong acids.

Hazardous decomposition products None under normal use.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Not an expected route of exposure.

Eye contact May cause irritation. **Skin contact** May cause irritation.

Ingestion May be harmful if swallowed.

Component identification

Chemical name	ATEmix (oral)	ATEmix (dermal)	Inhalation LC50
Lithium hydroxide	= 210 mg/kg (Rat)	Not Established	= 960 mg/m ³ (Rat) 4 h
1310-65-2			
Sodium carbonate*	= 4090 mg/kg (Rat)	Not Established	= 2300 mg/m ³ (Rat) 2 h
497-19-8			- ' '

Information on toxicological effects

Chemical name	ACGIH	IARC	NTP	OSHA
Lithium hydroxide	Not Established	Not Established	Not Established	Not Established
1310-65-2				
Sodium carbonate* 497-19-8	Not Established	Not Established	Not Established	Not Established

Chronic toxicity None known.

ATEmix (oral) 990.00 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life with long lasting effects

Unknown Aquatic Toxicity 43.4 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Che	mical name	Toxicity to Algae	Toxicity to Fish	Daphnia Magna (Water Flea)
	ım hydroxide 310-65-2	Not Established	Not Established	Not Established
	m carbonate* 497-19-8	242: 120 h Nitzschia mg/L EC50	310 - 1220: 96 h Pimephales promelas mg/L LC50 static 300: 96 h Lepomis macrochirus mg/L LC50 static	265: 48 h Daphnia magna mg/L EC50

Persistence and degradability

No information available.

Bioaccumulation/Accumulation

No information available.

Chemical name	Log Pow
Lithium hydroxide	Not Established
1310-65-2	
Sodium carbonate*	Not Established
497-19-8	

13. DISPOSAL CONSIDERATIONS

Disposal Methods Dispose of waste product or used containers according to local regulations.

Contaminated packaging Dispose of waste product or used containers according to local regulations.

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Lithium hydroxide 1310-65-2	Not Established	-	Not Established	Not Established
Sodium carbonate* 497-19-8	Not Established	-	Not Established	Not Established

Chemical name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Lithium hydroxide 1310-65-2	Not Established	Not Established	Not Established	Not Established
Sodium carbonate* 497-19-8	Not Established	Not Established	Not Established	Not Established

Chemical name	California Hazardous Waste Status
Lithium hydroxide 1310-65-2	*_
Sodium carbonate* 497-19-8	Corrosive

14. TRANSPORT INFORMATION

DOT

UN-No 3262

Proper shipping name CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (<10% Lithium Hydroxide mixture)

Hazard Class 8
Packing group III

TDG Not regulated

MEX Not regulated

ICAO Not regulated

IATA

UN-No 3262

Proper shipping name CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (<10% Lithium Hydroxide mixture)

Hazard Class 8
Packing group III

IMDG/IMO

UN-No 3262

Proper shipping name CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (<10% Lithium Hydroxide mixture)

Hazard Class 8
Packing group 8

RID Not regulated

ADR Not regulated

ADN Not regulated

15. REGULATORY INFORMATION

International Inventories

Complies **TSCA** Does not comply **DSL/NDSL EINECS/ELINCS** Does not comply Does not comply **ENCS IECSC** Complies Does not comply **KECL PICCS** Complies **AICS** Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	SARA 313 - Threshold Values %
Lithium hydroxide 1310-65-2	Not Established
Sodium carbonate* 497-19-8	Not Established

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical name	CWA - Reportable	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous
	Quantities			Substances
Lithium hydroxide 1310-65-2	Not Established	Not Established	Not Established	Not Established
Sodium carbonate* 497-19-8	Not Established	Not Established	Not Established	Not Established

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	RQ
Lithium hydroxide 1310-65-2	*_	Not Established	-
Sodium carbonate* 497-19-8	*_	Not Established	-

US State Regulations

Chemical name	California Proposition 65
Lithium hydroxide	Not Established
1310-65-2	
Sodium carbonate*	Not Established

497-19-8	
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U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Lithium hydroxide	Not Established	Not Established	Not Established
1310-65-2			
Sodium carbonate*	Not Established	Not Established	Not Established
497-19-8			

CPSC (Consumer Product Safety Commission) - Specially Regulated Substances

16. OTHER INFORMATION				
NEDA	Hoolth howard 1	Flormability 0	Inotability 0	Dhysical and Chemical

NFPA Health hazard 1 Flammability 0 Instability 0 Physical and Chemical Hazards N/A



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Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet