



<u> </u>	Reviewed on 09/05/2003
1 Identification	
Product identifier	
Product name: Lithium lactate	
Stock number: 39352 CAS Number: 867 55 0	
867-55-0 EC number:	
212-761-8 Relevant identified uses of the substance or mixture and uses advised against.	
Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development	
Details of the supplier of the safety data sheet Manufacturer/Supplier:	
Alfa Aesar Thermo Fisher Scientific Chemicals, Inc.	
30 Bond Street	
Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757	
Email: tech@alta.com	
www.alfa.com Information Department: Health, Safety and Environmental Department	
Emergency telephone number: During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866)	028-0280
	920-0709.
2 Hazard(s) identification	
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
GHS06 Skull and crossbones	
Acute Tox. 3 H301 Toxic if swallowed.	
Hazards not otherwise classified No information known.	
GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms	
GHS06	
Signal word Danger Hazard statements	
H301 Toxic if swallowed. Precautionary statements	
P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor/	
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor/	
P321 Specific treatment (see on this label). P405 Store locked up	
P501 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification	
D1B - Toxic material causing immediate and serious toxic effects	
Classification system HMIS ratings (scale 0-4)	
(Hazardouš Materials Identification System)	
Fire II Flammability = 1	
REACTIVITY I Physical Házard = 1	
Other hazards Results of PBT and vPvB assessment	
PBT: Not applicable. vPvB: Not applicable.	
3 Composition/information on ingredients	
Chemical characterization: Substances	
CAS# Description: 867-55-0 Lithium lactate	
Identification number(s): EC number: 212-761-8	
EC number: 212-761-8	
4 First-aid measures	
Description of first aid measures After inhalation	
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice.	
After skin contact Immediately wash with water and soap and rinse thoroughly.	
Seek immediate medical advice.	
After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment.	
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Product name: Lithium lactate	Product name: Lithium lactate			
		(Contd. of page 1)		
	s, both acute and delayed No further relevant information available.			
indication of any immediate medical a	attention and special freatment needed No further relevant information available.			
5 Fire-fighting measures Extinguishing media Suitable extinguishing agents Carbon Special hazards arising from the subs If this product is involved in a fire, the fol Carbon monoxide and carbon dioxide Metal oxide fume Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.	n dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. stance or mixture Illowing can be released:			
6 Accidental release measures				
Personal precautions, protective equi Wear protective equipment. Keep unprotective Ensure adequate ventilation Environmental precautions: Do not all	otected persons away. Now material to be released to the environment without proper governmental permits. It and cleaning up: Dispose of contaminated material as waste according to section 13. In special measures required. Andling In al protection equipment.			
7 Handling and storage				
Handling Precautions for safe handling Keep container tightly sealed.				
Store in cool, dry place in tightly closed of Ensure good ventilation at the workplace	containers. e. explosions and fires: No information known.			
Conditions for safe storage, including	•			
Storage Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Store away from oxidizing agents. Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed containers.				
Specific end use(s) No further relevant				
8 Exposure controls/personal prote Additional information about design of Properly operating chemical fume hood Control parameters				
Components with limit values that req Additional information: No data	quire monitoring at the workplace: Not required.			
Protection of hands:	and feed. othing immediately. nd of work.			
Impervious gloves Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. Eye protection: Safety glasses Body protection: Protective work clothing.				
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9 Physical and chemical properties Information on basic physical and che General Information				
Appearance: Form: Color:	Powder White			
Odor: Odor threshold:	Not determined Not determined			
pH-value:	Not applicable.			
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	>300 °C (>572 °F) Not determined Not determined			
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature:	Not applicable Not determined Not determined Not determined			
Auto igniting: Danger of explosion:	Not determined. Product does not present an explosion hazard.			
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Product name: Lithium lactate

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Product name: Lithium lactate			
	(Co	ontd. of page 2)	
Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water): Viscosity: dynamic: kinematic: Other information	Not determined Not applicable. Not applicable. Not determined. Not determined. Not applicable. Soluble : Not determined. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. No further relevant information available.		
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions No dangerous reactions known Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide Metal oxide fume			
11 Toxicological information Information on toxicological effects Acute toxicity: Harmful if swallowed. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: Irritant to skin and mucous membranes. Eye irritation or corrosion: Irritant to skin and mucous membranes. Eye irritation or corrosion: Irritant to skin and mucous membranes. Eye irritation or corrosion: Irritant to skin and mucous membranes. Eye irritation or corrosion: Irritant to skin and mucous membranes. Eye irritation or corrosion: Irritant to skin and mucous membranes. Eye irritation or corrosion: Irritant to skin and mucous membranes. Eye irritation or corrosion: Irritant to skin and mucous membranes. Germ cell mutagenicity: No effects known. Garcinogenicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Subacute to chronic toxicity: Large amounts of lithium compounds may cause vomiting, diarrhea, ataxia, intestinal irritation, kidney injury, central nervous system depression and a drop in blood pressure. Central nervous system effects may include slurred speech, blurred vision, dizziness, sensory loss, convulsions and stupor. Chronic intake may cause neuromuscular effects such as tremor, ataxia, weakness, clonus and hyperactive reflexes. Lithium can cause kidney damage, gastrointestinal disturbances, fatigue, dehydration, weight loss, dermatological effects and thyroid damage. Lithium ion has shown teratogenic effects in rats and mice. Subacute to chronic toxicity: No effects known. Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.			
12 Ecological information Toxicity Aquatic toxicity: No further relevant infor Persistence and degradability No further Bioaccumulative potential No further re Mobility in soil No further relevant inform Additional ecological information: General notes: Do not allow material to be released to th Do not allow undiluted product or large q Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant	ter relevant information available. elevant information available. mation available. he environment without proper governmental permits. quantities to reach ground water, water course or sewage system. t		
13 Disposal considerations Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations. Recommendat cleansing agent: Water, if necessary with cleansing agents.			
14 Transport information Not a hazardous material for transportati UN-Number			
DOT, IMDG, IATA UN proper shipping name DOT, IMDG, IATA	None		
Transport hazard class(es) DOT, ADR, IMDG, IATA Class	None		
Packing group DOT, IMDG, IATA	None		
Environmental hazards:	Not applicable.	(d	
1		ntd. on page 4) USA –	

roduct name: Lithium lactate	
	(Contd. of page 3
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL73/78	and the IBC Code Not applicable.
Transport/Additional information:	Not dangerous according to the above specifications.
DOT Marine Pollutant (DOT):	No
National regulations All components of this product are listed in the U.S. Environn SARA Section 313 (specific toxic chemical listings) Subs California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not Prop 65 - Developmental toxicity, male Substance is not Information about limitation of use: For use only by techni Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the The conditions of restrictions according to Article 67 and market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authoris Chemical safety assessment: A Chemical Safety Assessment 16 Other information Employers should use this information only as a supplement information to ensure proper use and protect the health and s	accordance with 29 CFR 1910 (OSHA HCS) uct. ENTER/ doctor/ th local/regional/national/international regulations. mental Protection Agency Toxic Substances Control Act Chemical substance Inventory. tance is not listed. tisted. sted. cally qualified individuals. G REACH Regulations (EC) No. 1907/2006. Substance is not listed. d Annex XVII of the Regulation (EC) No. 1907/2006 (REACH) for the manufacturing, placing on the station for use) Substance is not listed. tent has not been carried out.
Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/23/2015 / - Abbreviations and acronyms:	bination with any other product or process, is the responsibility of the user.
ADD Evidential Data Data Conversion of the second s	
ACGIH: Ámerican Conferencé of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	US/