



	Reviewed	d on 02/16/2016
1	1 Identification	
	Product identifier	
	Product name: Lithium acetate hydrate	
	Stock number: 12982 CAS Number:	
	546-89-4	
	EC number: 208-914-3	
	Relevant identified uses of the substance or mixture and uses advised against. No further relevant information available. 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@alfa.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) 928-078	80
2	2 Hazard(s) identification	
	Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) The substance is not classified according to the Globally Harmonized System (GHS).	
	Hazards not otherwise classified No information known.	
	Label elements GHS label elements Not applicable	
	Hazard pictograms Not applicable Signal word Not applicable	
	Hazard statements Not applicable	
	WHMIS classification Not controlled Classification system	
	HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
	HEALTH I Health (acute effects) = 1	
	FRE I Flammability = 1 REACTIVITY Physical Hazard = 1	
	Other hazards	
	Results of PBT and vPvB assessment	
	PBT: Not applicable. vPvB: Not applicable.	
3	3 Composition/information on ingredients	
	Chemical characterization: Substances	
	CAS# Description: 546-89-4 Lithium acetate hydrate	
	Identification number(s):´ EC number: 208-914-3	
4	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 immédiate medical advice.	
	After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment.	
	Information for doctor Most important symptoms and effects, both acute and delayed No further relevant information available.	
	Indication of any immediate medical attention and special treatment needed No further relevant information available.	
5	5 Fire-fighting measures	
	Extinguishing media Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.	
	Special hazards arising from the substance or mixture	
	If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide	
	Lithium oxide Advice for firefighters	
	Protective equipment: Wear self-contained respirator.	
	Wear sell-contained respirator. Wear fully protective impervious suit.	
6	6 Accidental release measures	
-	Personal precautions, protective equipment and emergency procedures	
	Wear protective equipment. Keep unprotected persons away.	
	Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Pick up mechanically.	
	(Contd. on page 2)

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Product name: Lithium acetate hydrate					
Prevention of secondary hazards: No s Reference to other sections See Section 7 for information on safe han See Section 8 for information on persona See Section 13 for disposal information.	ndling				
Conditions for safe storage, including Storage Requirements to be met by storeroom	explosions and tires: No information known. any incompatibilities s and receptacles: No special requirements. mon storage facility: Store away from oxidizing agents. ditions: d containers.				
8 Exposure controls/personal prote	ction				
Additional information about design o Properly operating chemical fume hood o	f technical systems: lesigned for hazardous chemicals and having an average face velocity of at least 100 feet per minute.				
Control parameters Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. Additional information: No data					
Exposure controls Personal protective equipment General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Recommended filter device for short term use: Use a respirator with type N95 (USA) or PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air- purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. Protection of hands: 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. Material of glove so Nitrile rubber, NBR Penetration time of glove material (in minutes) 480 Glove thickness 0.11 mm Eye protection: Safety glasses Body protection: Protective work clothing.					
9 Physical and chemical properties					
Information on basic physical and che General Information Appearance: Form: Odor: Odor threshold:	mical properties Crystalline Not determined Not determined.				
pH-value:	Not applicable.				
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	Not determined Not determined Not determined Not determined Not determined Not determined Not determined				
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density	Not determined. Not determined Not determined Not determined Not determined.				
Vapor density Evaporation rate Solubility in / Miscibility with Water:	Not applicable. Not applicable. Soluble				
Partition coefficient (n-octanol/water): Viscosity: dynamic: kinematic: Other information	Not determined. 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.

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-		(Contd. of page 2)		
Possibility of hazardous reactions Reacts with strong oxidizing agents Conditions to avoid No further relevant information available.				
Incompatible materials: Oxidizing agents Hazardous decomposition products:				
Carbon monoxide and carbon dioxide Lithium oxide				
11 Toxicological information				
Information on toxicological effects				
Acute toxicity: The following RTECS statement/statements refer to the anhydrous compound:				
The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute to LD/LC50 values that are relevant for classification: No data	exicity data for this substance.			
Skin irritation or corrosion: May cause irritation Eve irritation or corrosion: May cause irritation				
Eye irritation or corrosion: Maý cause irritation Sensitization: No sensitizing effects known. Germ cell mutagencitv:				
Germ cell mutagenicity: The following RTECS statement/statements refer to the anhydrous compound: The Registry of Toxic Effects of Chemical Substances (RTECS) contains mutation	n data for this substance			
Carcinogenicity: No classification data on carcinogenic properties of this materia Reproductive toxicity: No effects known.	al is available from the EPA, IARC, NTP, OSHA or ACGIH.			
Specific target organ system toxicity - repeated exposure: No effects known.				
Specific target organ system toxicity - single exposure: No effects known. Aspiration hazard: No effects known.				
Subacute to chronic toxicity: No effects known. Additional toxicological information: To the best of our knowledge the acute a	nd chronic toxicity of this substance is not fully known.			
Carcinogenic categories OSHA-Ca (Occupational Safety & Health Administration) Substance is not list	ed			
12 Ecological information				
Toxicity Aquatic toxicity: No further relevant information available.				
Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available.				
Mobility in soil No further relevant information available.				
Additional ecological information: General notes:				
Do not allow material to be released to the environment without proper governme Do not allow undiluted product or large quantities to reach ground water, water co				
Avoid transfer into the environment. Results of PBT and vPvB assessment				
PBT: Not applicable. vPvB: Not applicable.				
Other adverse effects No further relevant information available.				
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.				
Recommended cleansing agent: Water, if necessary with cleansing agents.				
14 Transport information				
UN-Number DOT, ADN, IMDG, IATA	Not applicable			
UN proper shipping name DOT, ADN, IMDG, IATA	Not applicable			
Transport hazard class(es)				
DOT, ADR, ADN, IMDG, IATA Class	Not applicable			
Packing group	Not applicable			
	Not applicable.			
Special precautions for user	Not applicable.			
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code I	Not applicable.			
Transport/Additional information: DOT				
Marine Pollutant (DOT):	No			
UN "Model Regulation":	-			
15 Regulatory information				
Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements Not applicable Hazard pictograms Not applicable				
Signal word Not applicable Hazard statements Not applicable				
National regulations All components of this product are listed in the U.S. Environmental Protection Age	ency Toxic Substances Control Act Chemical substance Inventorv.			
All components of this product are listed on the Canadian Domestic Substances L SARA Section 313 (specific toxic chemical listings) Substance is not listed.	.ist (DSL).			
California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed.				
Prop 65 - Developmental toxicity Substance is not listed.		(Contd. on page 4)		
		USA -		

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Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Information about limitation of use: For use only by technically qualified individuals. Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed. market and use must be observed. Substance is not listed

Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the use Department issuing SDS: Global Marketing Department Date of preparation / last revision 02/17/2016 / - Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) DOT: US Department of Transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) DOT: US Department of Transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) DOT: US Department of Transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) DOT: US Department of Transport des marchandises dangereuses (Carriage of Dangerous Goods by Road) EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent USO: Lethal concentration, 50 percent VPW: very Persistent and very Bioaccumulative ACGIH:: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) MTP: National Toxicology Program (USA)

USA