

SAFETY DATA SHEET

Revision Date 29-Mar-2024

Revision Number 4

1. Identification

Product Name

Lithium tert-butoxide

Cat No.: 46366

CAS No Synonyms

Recommended Use Uses advised against No information available Laboratory chemicals.

ainst Food, drug, pesticide or biocidal product use.

1907-33-1

Details of the supplier of the safety data sheet

<u>Company</u>

Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757

Emergency Telephone Number

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe:** +32 14 57 52 99 **CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable solids
Acute oral toxicity
Skin Corrosion/Irritation
Serious Eye Damage/Eye Irritation

Category 2 Category 4 Category 1 B Category 1

Label Elements

Signal Word Danger

Hazard Statements

Flammable solid Harmful if swallowed Causes severe skin burns and eye damage



Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Do not breathe dust/fume/gas/mist/vapors/spray

Wear protective gloves/protective clothing/eye protection/face protection

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Ground/bond container and receiving equipment

Use explosion-proof electrical/ventilating/lighting equipment

Response

Immediately call a POISON CENTER or doctor/physician

Inhalation

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

Skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

Eyes

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

Rinse mouth Do NOT induce vomiting

Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

Storage

Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Reacts violently with water

3. Composition/Information on Ingredients

Component		CAS No	Weight %
2-Propanol, 2-m	ethyl-, lithium salt	1907-33-1	>95
	4.	First-aid measures	
Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minut medical attention. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minut			
Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Get medical attenti immediately if symptoms occur.			
Inhalation Remove to fresh air. Get medical attention immediately if symptoms occur.			
Ingestion	Clean mouth symptoms oc	with water and drink afterwards plenty cour.	of water. Get medical attention if

Most important symptoms and effects	None reasonably foreseeable. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of performing.					
Notes to Physician	danger of perforations to PhysicianTreat symptomatically					
	5. Fire-fightin	g measures				
Suitable Extinguishing Media	Dry chemical, soda ash, lim	e or sand. approved class D ex	tinguishers.			
Unsuitable Extinguishing Media	No information available					
Flash Point Method -	No information available No information available					
Autoignition Temperature Explosion Limits Upper Lower	Not applicable No data available No data available					
Sensitivity to Mechanical Impact Sensitivity to Static Discharge	No information available					
Specific Hazards Arising from the C Flammable. Water reactive. Combustik		able gases on contact with wate	ər.			
Hazardous Combustion Products Carbon monoxide (CO). Carbon dioxid Protective Equipment and Precautic As in any fire, wear self-contained brea protective gear.	ns for Firefighters	emand, MSHA/NIOSH (approve	ed or equivalent) and full			
NFPA Health	Flammability	Instability	Physical hazards			
0	0	0	W			
	6. Accidental rel	ease measures				
Personal Precautions	Ensure adequate ventilation formation.	n. Use personal protective equip	oment as required. Avoid dust			
Environmental Precautions	Should not be released into	the environment.				
Methods for Containment and Clear Up	Sweep up and shovel into s	uitable containers for disposal.	Avoid dust formation.			
	7. Handling a	and storage				
Handling		quipment/face protection. Ensu othing. Avoid ingestion and inh				
Storage.	e. Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away from heat, sparks and flame. Corrosives area. Flammables area. Keep under nitrogen. Keep away from water or moist air. Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Acids. Water. Oxidizing agent.					
8. E>	•	personal protectic				
Exposure Guidelines		ain any hazardous materials wit ion specific regulatory bodies.	h occupational exposure			

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Engineering Measures	None under normal use conditions.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	No protective equipment is needed under normal use conditions.
Recommended Filter type:	Particle filter.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State		Powder Solid
Appearance		Off-white
Odor		No information available
Odor Threshold		No information available
рН		7
Melting Point/Range		No data available
Boiling Point/Range		No information available
Flash Point		No information available
Evaporation Rate		Not applicable
Flammability (solid,gas)		No information available
Flammability or explosive limits		
Upper		No data available
Lower		No data available
Vapor Pressure		No information available
Vapor Density		Not applicable
Specific Gravity		0.890
Solubility		No information available
Partition coefficient; n-octanol/wa	ater	No data available
Autoignition Temperature		Not applicable
Decomposition Temperature		No information available
Viscosity		Not applicable
Molecular Formula		C4 H9 Li O
Molecular Weight		80.06

10. Stability and reactivity				
Reactive Hazard	Yes			
Stability	Reacts violently with water. Hygroscopic. Moisture sensitive.			
Conditions to Avoid	Keep away from open flames, hot surfaces and sources of ignition. Incompatible products. Exposure to moist air or water.			
Incompatible Materials	Acids, Water, Oxidizing agent			
Hazardous Decomposition Produc	Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2)			
Hazardous Polymerization	No information available.			
Hazardous Reactions	None under normal processing.			

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11. Toxicological information

Acute Toxicity

Product Information Component Information Toxicologically Synergistic Products Delayed and immediate effects as w		No information available vell as chronic effects from short and long-term exposure						
Irritation		No information ava	ilable					
Sensitization		No information ava	ilable					
Carcinogenicity		The table below inc	dicates whether ea	ch agency has list	ed any ingredient	as a carcinogen.		
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico		
2-Propanol, 2-methyl-, lithium salt	1907-33-1	Not listed	Not listed	Not listed	Not listed	Not listed		
Mutagenic Effects		No information ava	ilable					
Reproductive Effect	S	No information ava	ilable.					
Developmental Effe	cts	No information ava	ilable.					
Teratogenicity		No information ava	ilable.					
STOT - single expos STOT - repeated exp		None known None known						
Aspiration hazard		No information available						
Symptoms / effects,both acute and delayed		Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation						
Endocrine Disruptor Information		No information available						
Other Adverse Effect	sts	The toxicological p	roperties have not	been fully investig	ated.			
		12. Ecolo	ogical inform	mation				
Ecotoxicity Do not empty into dra	iins							
Persistence and Deg	gradability	Soluble in water Persistence is unlikely based on information available.						
Bioaccumulation/ A	ccumulation	No information available.						
Mobility		Will likely be mobile in the environment due to its water solubility.						
		13. Dispo	sal conside	rations				
Waste Disposal Met	hods	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.						
		14. Tran	sport inforn	nation				
<u>DOT</u> UN-No		UN2925						

Proper Shipping Name Technical Name Hazard Class Subsidiary Hazard Class Packing Group TDG	Flammable solid, corrosive, organic, n.o.s. 2-Propanol, 2-methyl-, lithium salt 4.1 8 II
UN-No	UN2925
Proper Shipping Name	FLAMMABLE SOLID, CORROSIVE, ORGANIC, N.O.S.
Hazard Class	4.1
Subsidiary Hazard Class	8
Packing Group	II
IATA	
UN-No	UN2925
Proper Shipping Name	Flammable solid, corrosive, organic, n.o.s.
Hazard Class	4.1
Subsidiary Hazard Class	8
Packing Group	II
IMDG/IMO	
UN-No	UN2925
Proper Shipping Name	Flammable solid, corrosive, organic, n.o.s.
Hazard Class	4.1
Subsidiary Hazard Class	8
Packing Group	Ш
	15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
2-Propanol, 2-methyl-, lithium salt	1907-33-1	Х	ACTIVE	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed

'-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Not applicable Substances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
2-Propanol, 2-methyl-, lithium salt	1907-33-1	-	Х	217-611-5	Х	Х	Х	-	-	KE-22579

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. 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

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable

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.

California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations	Not applicable
U.S. Department of Transportation Reportable Quantity (RQ):	Ν

DOT Marine Pollutant	N
DOT Severe Marine Pollutant	N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

No information available

Authorisation/Restrictions according to EU REACH Not applicable

Component	CAS No	REACH (1907/2006) -	REACH (1907/2006) -	REACH Regulation (EC
-		Annex XIV - Substances	Annex XVII - Restrictions	1907/2006) article 59 -
		Subject to Authorization	on Certain Dangerous	Candidate List of
			Substances	Substances of Very High
				Concern (SVHC)
2-Propanol, 2-methyl-, lithium salt	1907-33-1	-	-	-

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
2-Propanol, 2-methyl-, lithium salt	1907-33-1	Not applicable	Not applicable	Not applicable	Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

Other International Regulations

Component	CAS No	Seveso III Directive (2012/18/EC) -	Seveso III Directive (2012/18/EC) -	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
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		Qualifying Quantities for Major Accident Notification	Qualifying Quantities for Safety Report Requirements		
2-Propanol, 2-methyl-, lithium salt	1907-33-1	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information
Prepared By	Health, Safety and Environmental Department Email: chem.techinfo@thermofisher.com www.thermofisher.com
Revision Date Print Date Revision Summary	29-Mar-2024 29-Mar-2024 New emergency telephone response service provider.

Disclaimer

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text

End of SDS