Printing date 07/17/2021

Reviewed on 07/17/2021

1 Identification

- · Product name
- · Trade name: Lithium t-butoxide, 98+%
- · Item number: 03-0780
- · CAS Number:
- 1907-33-1
- **EC number:** 217-611-5
- Details of the supplier of the safety data sheet
 Manufacturer/Supplier: Strem Chemicals, Inc.
 Mulliken Way NEWBURYPORT, MA 01950 USA

info@strem.com

- · Information department: Technical Department
- Emergency telephone number: EMERGENCY: CHEMTREC: + 1 (800) 424-9300 During normal opening times: +1 (978) 499-1600

2 Hazard(s) identification

 \cdot Classification of the substance or mixture

GHS02 Flame

Self-heat. 1 H251 Self-heating: may catch fire.

GHS05 Corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

- · Label elements
- · GHS label elements
- *The substance is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms*



· Signal word Danger

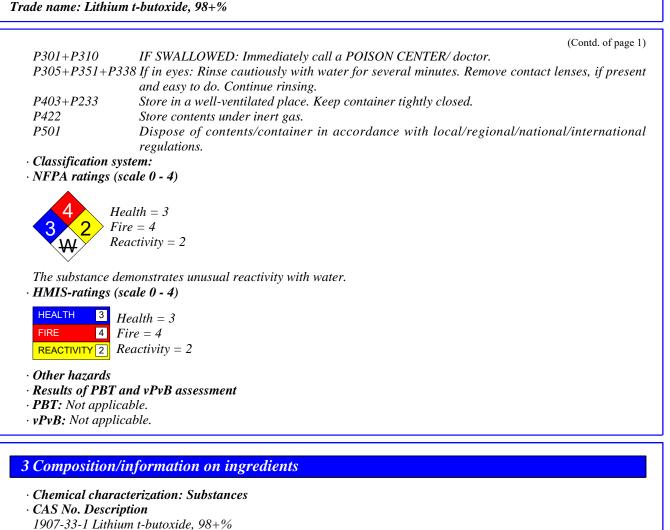
- Hazard-determining components of labeling: Lithium t-butoxide, 98+%
 Hazard statements H251 Self-heating: may catch fire. H314 Causes severe skin burns and eye damage.
- Precautionary statements P231 Handle under inert gas.

(Contd. on page 2)

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- · Identification number(s)
- EC number: 217-611-5

4 First-aid measures

- · Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Drink copious amounts of water and provide fresh air. Immediately call a doctor.
- 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 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.

(Contd. on page 3)

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Trade name: Lithium t-butoxide, 98+%

• Special hazards arising from the substance or mixture During heating or in case of fire poisonous gases are produced.

· Advice for firefighters

· Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

• Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

• Environmental precautions: No special measures required.

• *Methods and material for containment and cleaning up:* Use neutralizing agent. Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

- Reference to other sections
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.
- · Protective Action Criteria for Chemicals

• PAC-1:

Substance is not listed.

· PAC-2:

Substance is not listed.

· PAC-3:

Substance is not listed.

7 Handling and storage

- · Handling:
- · Precautions for safe handling
- Thorough dedusting.

Ensure good ventilation/exhaustion at the workplace.

- Open and handle receptacle with care.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.



(Contd. of page 2)

US

US

Safety Data Sheet according to OSHA HCS

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CHEMICALS, INC.

Reviewed on 07/17/2021

Trade name: Lithium t-butoxide, 98+%

Control parameters Components with limit values that require monitoring at the workplace: Not required. Additional information: The lists that were valid during the creation were used as basis. Exposure controls Personal protective equipment: Wear protective clothing General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing.	
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Personal protective equipment: Wear protective clothing General protective and hygienic measures: Keep away from foodstuffs, beverages and feed.	
Personal protective equipment: Wear protective clothing General protective and hygienic measures: Keep away from foodstuffs, beverages and feed.	
General protective and hygienic measures: Keep away from foodstuffs, beverages and feed.	
Immediately remove all soiled and contaminated clothing.	
Wash hands before breaks and at the end of work.	
Avoid contact with the eyes.	
Avoid contact with the eyes and skin.	
Breathing equipment: A NIOSH approved respirator in accordance with 29 CFR 1910.134.	
Protection of hands:	
Protective gloves	
The glove material has to be impermeable and resistant to the product/ the substance/ the prepa Due to missing tests no recommendation to the glove material can be given for the product/ th chemical mixture.	
Selection of the glove material on consideration of the penetration times, rates of diffusion and i	the degradation
Material of gloves	0
The selection of the suitable gloves does not only depend on the material, but also on further ma	arks of quality an
varies from manufacturer to manufacturer.	• • •
Penetration time of glove material	
The exact break through time has to be found out by the manufacturer of the protective glo	ves and has to b
observed.	
Eye protection:	

Information on basic physical and a General Information Appearance:	chemical properties	
Form:	Powder	
Color:	Whitish	
Odor:	Solvent-like	
Odor threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	Undetermined.	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Flammable.	

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		(Contd. of page 4
· Ignition temperature:		
Decomposition temperature:	Not determined.	
· Auto igniting:	Not determined.	
· Danger of explosion:	Not determined.	
· Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
· Vapor pressure:	Not applicable.	
• Density at 20 •C (68 •F):	0.89 g/cm ³ (7.42705 lbs/gal)	
· Relative density	Not determined.	
· Vapor density	Not applicable.	
· Evaporation rate	Not applicable.	
· Solubility in / Miscibility with		
Water:	Insoluble.	
· Partition coefficient (n-octanol/wa	ter): Not determined.	
· Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
· Solvent content:		
Organic solvents:	0.0 %	
VOC content:	0.0 g/l / 0.00 lb/gl	
Solids content:	100.0 %	
• Other information	No further relevant information available.	

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- Acute toxicity:
- · Primary irritant effect:
- on the skin: Caustic effect on skin and mucous membranes.
- \cdot on the eye:
- Strong caustic effect.
- Strong irritant with the danger of severe eye injury.
- · Sensitization: No sensitizing effects known.

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Trade name: Lithium t-butoxide, 98+%

· Additional toxicological information:

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

Substance is not listed.

 \cdot NTP (National Toxicology Program)

Substance is not listed.

· OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- *Mobility in soil* No further relevant information available.
- · Additional ecological information:
- · General notes: Must not reach bodies of water or drainage ditch undiluted or unneutralized.
- · 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:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- **Recommendation:** Disposal must be made according to official regulations.

· UN-Number	
· DOT, IMDG, IATA	UN3206
· UN proper shipping name	
$\cdot DOT$	Alkali metal alcoholates, self-heating, corrosive, n.o.s.
· IMDG, IATA	ALKALI METAL ALCOHOLATES, SELF-HEATING, CORROSIV
	N.O.S.



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Reviewed on 07/17/2021

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Trade name: Lithium t-butoxide, 98+%

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

• Section 355 (extremely hazardous substances):

Substance is not listed.

• Section 313 (Specific toxic chemical listings):

Substance is not listed.

• TSCA (Toxic Substances Control Act):

Substance is listed.

· Proposition 65

· Chemicals known to cause cancer:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

· Chemicals known to cause developmental toxicity:

Substance is not listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

Substance is not listed.

· TLV (Threshold Limit Value established by ACGIH)

Substance is not listed.

 \cdot NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is not listed.

· GHS label elements

The substance is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*



· Signal word Danger

Hazard-determining components of labeling: Lithium t-butoxide, 98+%
Hazard statements H251 Self-heating: may catch fire. H314 Causes severe skin burns and eye damage.
Precautionary statements P231 Handle under inert gas. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P403+P233 Store in a well-ventilated place. Keep container tightly closed.

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	(Contd. of p
P422	Store contents under inert gas.
P501	Dispose of contents/container in accordance with local/regional/national/internative regulations.
· Chemical so	fety assessment: A Chemical Safety Assessment has not been carried out.
6 Other info	ormation
	ation is based on our present knowledge. However, this shall not constitute a guarantee for duct features and shall not establish a legally valid contractual relationship.
· Department	issuing SDS: Technical Department.
· Contact: Te	chnical Director
· Date of prei	paration / last revision 07/17/2021 / -
	ns and acronyms:
	européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the Interna
	ngerous Goods by Road)
	tional Maritime Code for Dangerous Goods
	rtment of Transportation
	ional Air Transport Association
	can Conference of Governmental Industrial Hygienists
	pean Inventory of Existing Commercial Chemical Substances
	Abstracts Service (division of the American Chemical Society)
	Il Fire Protection Association (USA)
	ous Materials Identification System (USA)
	Organic Compounds (USA, EU)
	t, Bioaccumulative and Toxic sistent and very Bioaccumulative
	al Institute for Occupational Safety
	tional Safety & Health
TLV: Threshold	
	ole Exposure Limit
	nded Exposure Limit
	If-heating substances and mixtures – Category 1
	Skin corrosion/irritation – Category 1B

