



LITHIUMSOAP I

Version 1.1

Revision Date 09/16/2019

SECTION 1. IDENTIFICATION

Product identifier

Trade name : **LITHIUMSOAP I**

Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub- : Lubricants and lubricant additives
stance/Mixture
Recommended restrictions : None known.
on use

Details of the supplier of the safety data sheet

Company : Baerlocher Production USA LLC
5890 Highland Ridge Drive
Cincinnati, OH 45232
Telephone : Day 330-602-1528 or 330-602-1531
: Night 513-207-1620 or 513-604-2327
E-mail address : Hotline.PS@baerlocher.com
Responsible/issuing person : Product Safety Department

Emergency telephone number (0 - 24 h)

Tel.: 800-424-9300 USA or 703-527-3887

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Combustible dust

GHS label elements

Signal word: Warning

Hazard Statement: May form combustible dust concentrations in air.

Other hazards

Health injuries are not known or expected under normal use.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

Chemical nature : Lithium salt of C16 - C18 fatty acids.

SECTION 4. FIRST AID MEASURES

If inhaled : Move to fresh air.



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- In case of skin contact : Wash off with plenty of water.
- In case of eye contact : Rinse with plenty of water.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.
- Most important symptoms and effects, both acute and delayed : No information available.
- Notes to physician : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray
Foam
Carbon dioxide (CO₂)
Dry chemical
Sand
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire-fighting : Smoke and fumes, toxic.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Avoid dust formation.
Remove all sources of ignition.
- Environmental precautions : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.
- Methods and materials for containment and cleaning up : Use mechanical handling equipment.
Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Take precautionary measures against static discharges.
Keep away from sources of ignition - No smoking.
Avoid formation and buildup of dust.
- Conditions for safe storage : Store at room temperature in the original container.
Keep in a dry place.



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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
General limits for air contaminants (PNOC)	Not Assigned	air 8 h (total dust)	15 mg/m ³	OSHA Z-3
		air 8 h (Respirable fraction)	5 mg/m ³	OSHA Z-3
		air 8 h (inhalable dust)	10 mg/m ³	ACGIH
		air 8 h (Respirable fraction)	3 mg/m ³	ACGIH

Engineering measures : Local exhaust

Personal protective equipment

Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.
Half mask with a particle filter P2 (EN 143)

P1 filter respirator for inert particles

Hand protection

Remarks : protective gloves acc. to EN 374, e.g. neoprene

Eye protection : Safety glasses

Skin and body protection : Long sleeved clothing

Protective measures : antistatic shoes

Hygiene measures : When using do not eat or drink.
Do not smoke.
Wash hands before breaks and at the end of workday.
Shower or bathe at the end of working.
Keep working clothes separately.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : powder

Color : off-white

Odor : slight



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Odor Threshold	:	No data available
pH	:	7 - 9 (20 °C)
Melting point/range	:	> 200 °C Method: Kofler Hot Bar (OECD 102)
Boiling point/boiling range	:	No data available
Flash point	:	>> 100 °C
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Combustible Solids
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available
Relative density	:	No data available
Density	:	1.02 g/cm ³ Method: OECD Test Guideline 109
Bulk density	:	No data available
Solubility(ies) Water solubility	:	slightly soluble
Partition coefficient: n- octanol/water	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No decomposition if stored and applied as directed.
Viscosity Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Stable at normal ambient temperature and pressure.
Chemical stability	:	No decomposition if stored normally.
Possibility of hazardous reac-	:	Risk of dust explosion.



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tions

- Conditions to avoid : Avoid dust formation.
Keep away from heat and sources of ignition.
- Incompatible materials : Strong oxidizing agents
- Hazardous decomposition products : No decomposition if used as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

- Acute oral toxicity : Remarks: Read-across (Analogy)
- LD50 (Rat): > 5,000 mg/kg
Method: OECD Test Guideline 401
- Remarks: Read-across (Analogy)
- LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 420
GLP: yes
Remarks: Based on available data, the classification criteria are not met.
- Acute inhalation toxicity : Remarks: Based on available data, the classification criteria are not met.
- Acute dermal toxicity : Remarks: Read-across (Analogy)
- LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 402
GLP: yes
Remarks: Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Product:

- Remarks: Read-across (Analogy)
- Species: EPISKIN Human Skin Model Test
Exposure time: 15 min
Method: OECD Test Guideline 439
Result: not irritating
GLP: yes
- Remarks: Read-across (Analogy)
- Species: reconstructed human epidermis (RhE)



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Exposure time: 4 h
Method: OECD Test Guideline 431
Result: not irritating
GLP: yes
Remarks: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation

Product:

Remarks: Read-across (Analogy)

Species: Rabbit
Result: not irritating
Method: OECD Test Guideline 405
GLP: yes
Remarks: Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation

Product:

Remarks: Skin sensitisation

Remarks: Read-across (Analogy)

Test Type: LLNA
Species: Mouse
Method: OECD Test Guideline 429
Result: negative
GLP: yes
Remarks: Based on available data, the classification criteria are not met.

Remarks: Respiratory sensitisation

Remarks: Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Product:

Genotoxicity in vitro : Remarks: Read-across (Analogy)

: Test Type: Mutagenicity (Salmonella typhimurium - reverse mutation assay)
Species: Bacteria
Method: OECD Test Guideline 471
Result: negative
GLP: yes

: Remarks: Read-across (Analogy)

: Test Type: In vitro gene mutation study in mammalian cells
Species: mouse lymphoma cells
Method: OECD Test Guideline 476



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Result: negative
GLP: yes

- : Remarks: Read-across (Analogy)
- : Test Type: Mutagenicity (in vitro mammalian cytogenetic test)
Species: Human lymphocytes
Method: OECD Test Guideline 473
Result: negative
GLP: yes
Remarks: Based on available data, the classification criteria are not met.

Carcinogenicity

Product:

Remarks: This product contains no known or suspected carcinogens listed by IARC, NTP or OSHA at or above reportable quantities.

Reproductive toxicity

Product:

Effects on fertility

- : Remarks: Read-across (Analogy)

Test Type: Screening for reproductive/developmental toxicity
Species: Rat
Application Route: Dermal
NOAEL: 1,000 mg/kg,
Method: OECD Test Guideline 422
GLP: yes
Remarks: Based on available data, the classification criteria are not met.

Effects on foetal development

- : Remarks: Read-across (Analogy)
Species: Rat
Application Route: Dermal
1,000 mg/kg
Method: OECD Test Guideline 422
GLP: yes
Remarks: Based on available data, the classification criteria are not met.

STOT - single exposure

Product:

Remarks: Based on available data, the classification criteria are not met.



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Repeated dose toxicity

Product:

Remarks: Read-across (Analogy)

Species: Rat

NOAEL: 1,000 mg/kg

Application Route: Dermal

Method: OECD Test Guideline 422

GLP: yes

Remarks: Based on available data, the classification criteria are not met.

Aspiration toxicity

Product:

Based on available data, the classification criteria are not met.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish

:

Remarks: Read-across (Analogy)

LL50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l

Exposure time: 96 h

Test Type: semi-static test

Method: OECD Test Guideline 203

GLP: yes

Remarks: Value referred to the Water accumulated fraction (WAF).

Toxicity to daphnia and other aquatic invertebrates

:

Remarks: Read-across (Analogy)

EL50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h

Test Type: static test

Method: OECD Test Guideline 202

GLP: yes

Remarks: Value referred to the Water accumulated fraction (WAF).

Toxicity to algae

:

Remarks: Read-across (Analogy)

EL50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l

Exposure time: 72 h



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Test Type: static test
Method: OECD Test Guideline 201
GLP: yes
Remarks: Value referred to the Water accumulated fraction (WAF).

Toxicity to bacteria : GLP:
Remarks: Read-across (Analogy)

: NOEC (activated sludge): 13 mg/l
Exposure time: 28 d
Test Type: static test
Method: OECD
GLP: yes

Ecotoxicology Assessment

Acute aquatic toxicity : Based on available data, the classification criteria are not met.

Chronic aquatic toxicity : Based on available data, the classification criteria are not met.

Persistence and degradability

Product:

Biodegradability : Remarks: Read-across (Analogy)

Test Type: aerobic
Inoculum: activated sludge
Result: Readily biodegradable.
Biodegradation: 97 %
Exposure time: 28 d
Method: OECD Test Guideline 301B

Remarks: Read-across (Analogy)

Test Type: aerobic
Inoculum: activated sludge
Result: Readily biodegradable.
Biodegradation: 78 %
Exposure time: 28 d
Method: OECD Test Guideline 301C
GLP: yes

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: Read-across (Analogy)

Remarks: This substance is not considered to be bioaccumulating.



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Mobility in soil

Product:

Mobility : Remarks: No data available

Other adverse effects

Product:

Results of PBT and vPvB assessment : Based on available data, the classification criteria are not met.

Endocrine disrupting potential : No information available.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Consult an expert on the disposal of recovered material. Ensure disposal in compliance with government requirements and ensure conformity to local disposal regulations. Dispose in accordance with local, state and federal regulations.

Contaminated packaging : Empty containers must be handled with care due to product residue.

SECTION 14. TRANSPORT INFORMATION

National Regulations

DOT

Not regulated as a dangerous good

International Regulations

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.



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SECTION 15. REGULATORY INFORMATION

SARA 313 : This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:

Components	CAS-No.	Wt.
not applicable	Not Assigned	

The components of this product are reported in the following inventories:

EINECS	listed
TSCA	listed
DSL	listed
AICS	listed
ENCS	listed
ECL	listed
PICCS	listed
CHINA	listed

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level;



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NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

HMIS III:

HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

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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.

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