

Safety Data Sheet

LITHIUM STEARATE

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1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifiers

Chemical Name	Lithium stearate
CAS NO.	4485-12-5

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

1. Lithium Stearates are designed to meet the requirements of silicone-based greases for food processing.
2. During production of Thermoplastic Polymer resins Stearates are used as Acid scavengers to neutralize residual catalyst.
3. Lithium Stearate also acts as lubricant during blending and extrusion.

Details of the supplier of the safety data sheet

COMPANY

POLYMER ADD (THAILAND) CO., LTD.
 106, Chalaremprakiat, Lor 9, Soi 22, Yak
 5, Nongbon, Prawet, Bangkok
 Bangkok - 10250
 Thailand
 Telephone : 0804531391
 Email - contact@polymeradd.co.th

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Physical and Chemical Hazards	Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.
Human Health	Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.
Environment	Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Not a hazardous substance or mixture according to EU Directives 67/548/EEC or 1999/45/EC

2.2 Labelling according Regulation (EC) No 1272/2008 [CLP]

Label elements	Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008 [CLP] .
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Signal word	None
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According to European Directive 67/548/EEC as amended	Not a hazardous substance or mixture according to European Directive 67/548/EEC as amended.
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None

2.3 Other hazards	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at
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levels of 0.1% or higher.

3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Component

Chemical Name	LITHIUM STEARATE
CAS NO	4485-12-5
EC Number	224-772-5
Molecular Formula	C18H35LiO2
Molecular Weight	290,41 g/mol
Concentration	>98

4 FIRST AID MEASURES

4.1 Description of first aid measures

If inhaled	Remove from exposure, lie down. Remove to fresh air
In case of skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
In case of eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
If swallowed	Clean mouth with water. Get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5 FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	Water spray. Carbon dioxide (CO 2). Dry chemical. Chemical foam.
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5.2 Special hazards arising from the substance or mixture	Nature of decomposition products not known. Combustible. Development of hazardous combustion gases or vapours possible in the event of fire.
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5.3 Advice for firefighters	In the event of fire, wear self-contained breathing apparatus.
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- 5.4 **Further information** Prevent fire extinguishing water from contaminating surface water or the ground water system.
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6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions(see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections

For disposal see section 13.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

For precautions see section 2.2.

7.2 Information about protection against explosions and fires

No data available

7.3 Conditions for safe storage including any incompatibilities

Tightly closed. Dry.Storage class (TRGS 510): 11: Combustible Solids

7.4 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory protection

No protective equipment is needed under normal use conditions.

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Control of environmental exposure

Do not let product enter drains.

9 PHYSICAL AND CHEMICAL PROPERTIES

a) Appearance	Form: solid, Colour: White
b) Odour	No data available
c) Odour Threshold	No data available
d) pH (% solution in water)	No data available
pH	No data available
e) Melting point/freezing point	220 °C / 428 °F
f) Initial boiling point and boiling range	No data available
g) Flash point	No data available
h) Evaporation rate	No data available
i) Flammability (solid or gas)	No data available
j) Upper/lower flammability or explosive limits	No data available
k) Vapour pressure	No data available
l) Vapour density	No data available
m) Relative density	No data available
n) Water solubility	No data available
o) Partition coefficient: n-octanol/water	No data available
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available

9.2 Other safety information

Bulk Density	No data available
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10 STABILITY AND REACTIVITY

10.1 Reactivity	The following applies in general to flammable organic substances and mixtures: in correspondingly fi
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	No data available

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10.4	Conditions to avoid	Incompatible products.
10.5	Incompatible materials	Acids, Bases, Strong oxidizing agents
10.6	Hazardous decomposition products	Carbon monoxide (CO), Carbon dioxide (CO2)

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity	LD50 Oral - Rat - 15.000 mg/kg Remarks: Behavioral:Somnolence (general depressed activity). Behavioral:Change in motor activity (specific assay). Skin and Appendages: Other: Hair. Inhalation: No data available Dermal: No data available
Acute oral toxicity	No data available
Acute Inhalation toxicity	No data available
Acute dermal toxicity	No data available
Acute Irritation / corrosion toxicity	No data available
Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
IARC	No data available
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity - repeated exposure	No data available
Signs and symptoms of exposure	No data available
Route of exposure	No data available
Aspiration hazard	No data available
Potential health effects	No data available
Inhalation	No data available
Ingestion	No data available
Skin	No data available

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Eyes No data available

RTECS WI4370000

Signs And Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12 ECOLOGICAL INFORMATION

12.1 Toxicity No data available

Toxicity to fish No data available

Toxicity to daphnia and other aquatic invertebrates No data available

Toxicity to Algae/Aquatic plants No data available

Toxicity to microorganisms No data available

12.2 Persistence and degradability

Biodegradation

No data available

12.3 Bio accumulative potential No data available

12.4 Mobility in soil No data available

12.5 Results of PBT and vPvB assessment This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects No data available

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other

14 TRANSPORT INFORMATION

14.1 UN number

ADR/RID	IMDG	IATA
-	-	-

14.2 UN proper shipping name

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	ADR/RID	IMDG	IATA
	Not dangerous goods	Not dangerous goods	Not dangerous goods
14.3 Transport hazard class(es)			
	ADR/RID	IMDG	IATA
	-	-	-
14.4 Packaging group			
	ADR/RID	IMDG	IATA
	-	-	-
14.5 Environmental hazards			
	ADR/RID	IMDG Marine pollutant	IATA
	no	no	no
14.6 Special precautions for user		none	

15 REGULATORY INFORMATION

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

16 OTHER INFORMATION

see under section 2

no data available

Month of Creation March 2023

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