

# Lithium Stearate

## Section 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Product name: Lithium Stearate  
 CAS Number: 4485-12-5  
 EC Number: 224-772-5

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

Product use: Laboratory chemicals, Industrial & for professional use only

### 1.3 Details of the supplier of the safety data sheet

**Company name:** East Harbour Group Ltd  
 20 Clough Road, Severalls Industrial Park  
 Colchester, Essex, CO4 9QS  
 United Kingdom

**Telephone:** +44 (0) 333 242 0100  
**Email:** [info@eastharbourgroup.com](mailto:info@eastharbourgroup.com)

### 1.4 Emergency telephone number

**Emergency telephone:** 0800 246 1274

## Section 2: Hazardous identification

### 2.1 Classification of the substance or mixture

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

### 2.2 Label elements

Signal Word	Warning
Hazard Statement	May form combustible dust concentrations in air
<b>Precautionary Statements</b>	
Storage	Store in a well-ventilated place. Keep container tightly closed
<b>Hazards not otherwise classified (HNOC)</b>	Non identified

## Section 3: Composition/information on ingredients

Component	CAS No	Weight %
Lithium stearate	4485-12-5	95

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## Section 4: First aid measures

### 4.1 Description of first aid measures

Eye contact	Rinse immediately with plenty of water, also under the eyelids for at least 15 minutes
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes
Inhalation	Remove from exposure, lie down. Remove to fresh air
Ingestion	Clean mouth with water. Get medical attention
Most important symptoms & effect	No information available
Notes to physician	Treat symptomatically

## Section 5: Fire-fighting measures

### 5.1 Fire Fighting Media and Instructions:

Suitable extinguishing media: Water spray. Carbon dioxide (CO 2). Dry chemical. Chemical foam  
 Unsuitable extinguishing media: no data available

Flash Point	No information available
Method -	No information available
Autoignition Temperature	Not applicable
Explosion Limits	
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

### 5.2 Special hazards arising from the substance or mixture

Dust can form an explosive mixture with air. Fine dust dispersed in air may ignite

Hazardous Combustion Products      Carbon monoxide (CO). Carbon dioxide (CO2).

### 5.3 Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

NFPA	Health	Flammability	Instability	Physical hazards
	0	1	0	N/A

## Section 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment as required

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## 6.2 Environmental precautions

See Section 12 for additional Ecological Information.

## 6.3 Methods and material for containment and cleaning up

Sweep up and shovel into suitable containers for disposal

## Section 7: Handling and storage

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breathe dust.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Incompatible Materials. Acids. Bases. Strong oxidizing agents

## Section 8: Exposure controls/personal protection

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls /

#### Appropriate engineering controls

None under normal use conditions.

### 8.3 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.

Hygiene Measures

Handle in accordance with good industrial hygiene

## Section 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Physical State**

Powder Solid

**Appearance**

White

**Odor**

No information available

**Odor Threshold**

No information available

**pH**

No information available

**Melting Point/Range**

220 °C / 428 °F

**Boiling Point/Range**

No information available

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<b>Flash Point</b>	No information available
<b>Evaporation Rate</b>	Not applicable
<b>Flammability (solid, gas)</b>	No information available
<b>Flammability or Explosive Limits</b>	
<b>Upper</b>	No data available
<b>Lower</b>	No data available
<b>Vapor Pressure</b>	No information available
<b>Vapor Density</b>	Not applicable
<b>Specific Gravity</b>	No information available
<b>Solubility</b>	No information available
<b>Partition Coefficient; n-octanol/water</b>	No data available
<b>Auto-ignition temperature</b>	Not applicable
<b>Decomposition temperature</b>	No information available
<b>Viscosity</b>	Not applicable
<b>Molecular Formula</b>	C18 H35 Li O2
<b>Molecular Weight</b>	290.41

## Section 10: Stability and Reactivity

<b>10.1 Reactivity</b>	None known, based on information available
<b>10.2 Chemical Stability</b>	Stable under normal conditions
<b>10.3 Possibility of hazardous reactions</b>	None under normal processing
<b>10.4 Conditions to avoid</b>	Incompatible products
<b>10.5 Incompatible materials</b>	Acids, Bases, Strong oxidizing agents
<b>10.6 Hazardous decomposition products</b>	Carbon monoxide (CO), Carbon dioxide (CO2)
<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur

## Section 11: Toxicological Information

## **Acute Toxicity**

## Product Information

No acute toxicity information is available for this product

## Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Lithium Stearate	LD50 = 15 g/kg (Rat)	Not listed	Not listed

## Toxicologically Synergistic Products

No information available

## **Delayed and immediate effects as well as chronic effects from short and long-term exposure**

Irritation	No information available
Sensitization	No information available
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen

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Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Lithium Stearate	4485-12-5	Not listed				

Mutagenic Effects	No information available
Reproductive Effects	No information available
Developmental Effects	No information available
Teratogenicity	No information available
STOT – Single Exposure	None known
STOT – Repeated Exposure	None known
Aspiration hazard	No information available
Symptoms/effects both acute and delayed	No information available
Endocrine Disruptor Information	No information available
Other Adverse Effects	The toxicological properties have not been fully investigated.

## Section 12: Ecological Information

### 12.1 Toxicity

#### Ecotoxicity effects

Persistence and Degradability	No information available
Bioaccumulation/ Accumulation	No information available
Mobility	No information available

## Section 13: Disposal considerations

### 13.1 Waste treatment methods

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.

## Section 14: Transport Information

DOT: Not regulated

IMDG: Not regulated

IATA: Not regulated

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

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## Section 15: Regulatory Information

### United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification – Active-Inactive	TSCA - EPA Regulatory Flags
Lithium stearate	4485-12-5	X	ACTIVE	-

#### Legend:

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

X - Listed

'-' - Not Listed

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
Lithium Stearate	4485-12-5	X	-	224-772-5	X	X	X	X	X	KE-26389

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

### U.S. Federal Regulations

SARA 313

Not applicable

SARA 311/312 Hazard Categories

See section 2 for more information

CWA (Clean Water Act)

Not applicable

Clean Air Act

Not applicable

OSHA - Occupational Safety and

Not applicable

Health Administration

Not applicable

CERCLA

Not applicable

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

Not applicable

Reportable Quantity (RQ):

N

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

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)
Lithium Stearate	4485-12-5	Not applicable	Not applicable	Not applicable	Not applicable

## Lithium Stearate

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Lithium Stearate	4485-12-5	Not applicable	Not applicable	Not applicable	Not applicable