

# MATERIAL SAFETY DATA SHEET

## 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  
Miranda House, The Quay  
Harwich, Essex, CO12 3HH  
United Kingdom  
**Telephone:** +44 (0) 333 242 0100  
**Email:** [info@eastharbourgroup.com](mailto:info@eastharbourgroup.com)

#### 1.4 Emergency telephone number

**Emergency telephone:** +44 (0) 333 242 0100 (U.K office hours only)

### 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  
**Precautionary Statements**  
Storage: Store in a well-ventilated place. Keep container tightly closed  
**Hazards not otherwise classified (HNOC)**: Non identified

### Section 3: Composition/information on ingredients

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

**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<sub>2</sub>). 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 (CO<sub>2</sub>).

**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**

<b>Health</b>	<b>Flammability</b>	<b>Instability</b>	<b>Physical hazards</b>
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

**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
Odour	No information available
Odour Threshold	No information available
pH	No information available
Melting Point/Range	220 °C / 428 °F
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	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	Not applicable
Decomposition Temperature	No information available

Viscosity Not applicable  
 Molecular Formula C18 H35 Li O2  
 Molecular Weight 290.41

### Section 10: Stability and Reactivity

10.1 Reactivity None known, based on information available  
 10.2 Chemical Stability Stable under normal conditions.  
 10.3 Possibility of hazardous reactions None under normal processing.  
 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)  
 Hazardous Polymerization 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

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

## 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 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 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
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**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

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