

# SAFETY DATA SHEET

Issue Date 20-Jun-2014 Revision Date 19-Mar-2014 Version 1

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product identifier** 

Product Name Lithium Stearate 304; Lithium Stearate 306

Other means of identification

Biogenix Product Code 19049, 11832 SDS Code LITHIUMST

Synonyms Lithium Stearate 304, Lithium Stearate 306

Recommended use of the chemical and restrictions on use

**Recommended Use**Lubricant. Chemical intermediate.

Uses advised against Consumer use

Details of the supplier of the safety data sheet

Supplier AddressManufacturer AddressPMC Biogenix, Inc.PMC Biogenix, Inc.1231 Pope Street1231 Pope StreetMemphis, TN 38108Memphis, TN 38108

USA USA

Emergency telephone number

Company Phone Number PMC Biogenix Customer Service: 1-800-641-2152

24 Hour Emergency Phone Number CHEMTREC: 1-800-424-9300

Emergency Telephone Biogenix Environmental Health and Safety Department +1-901-320-5820

### 2. HAZARDS IDENTIFICATION

### Classification

### **OSHA Regulatory Status**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122)

### Label elements

### **Emergency Overview**

#### Hazard statements

Handle in accordance with good industrial hygiene and safety practice

Appearance powder Physical state Solid Odor Slight characteristic

### **Precautionary Statements - Response**

Get medical advice/attention if you feel unwell

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Drink 1 or 2 glasses of water. Get medical advice/attention if you feel unwell.

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### Hazards not otherwise classified (HNOC)

Dust can form an explosive mixture with air

Other Information

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms

Lithium Stearate 304. Lithium Stearate 306.

Chemical Name	CAS No.	Weight-%	Trade Secret
Lithium stearate	4485-12-5	> 96	*
Water	7732-18-5	< 2	*
Octadecanoic acid	57-11-4	<1	*

<sup>\*</sup> The exact percentage (concentration) of composition has been withheld as a trade secret. If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

First aid measures

**Eye contact** Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists: Get

medical advice/attention.

**Skin Contact** Wash skin with soap and water. (Get medical attention immediately if symptoms occur.).

**Inhalation** Remove to fresh air. (Get medical attention immediately if symptoms occur.).

**Ingestion** Clean mouth with water and drink afterwards plenty of water. (Get medical attention

immediately if symptoms occur.).

Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

Indication of any immediate medical attention and special treatment needed

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

# Specific hazards arising from the chemical

Avoid creating dust. Thermal decomposition can lead to release of irritating and toxic gases and vapors. Do not allow run-off from fire-fighting to enter drains or water courses.

Hazardous combustion products Carbon monoxide. Carbon dioxide (CO2). lithium oxide.

### **Explosion data**

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

#### Protective equipment and precautions for firefighters

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

# 6. ACCIDENTAL RELEASE MEASURES

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

**Personal precautions** Ensure adequate ventilation, especially in confined areas. Avoid creating dust. Dust can

form an explosive mixture with air.

**Environmental precautions** 

**Environmental precautions**The product is insoluble and floats on water. Prevent further leakage or spillage if safe to do

so. Do not allow into any sewer, on the ground or into any body of water. Prevent product

from entering drains. See Section 12 for additional ecological information.

# Methods and material for containment and cleaning up

Methods for cleaning up Avoid creating dust. Pick up and transfer to properly labeled containers. Clean

contaminated surface thoroughly.

### 7. HANDLING AND STORAGE

### Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible materials** Strong oxidizing agents.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

**Exposure Guidelines** Exposure limits are listed below, if they exist.

	Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	PMC OEL
Г	Lithium stearate TWA: 10 mg/m³ except		-	-	-
	4485-12-5	stearates of toxic metals			
	Octadecanoic acid 57-11-4	-	-	-	TWA: 10 mg/m <sup>3</sup>
	Dust DUST	TWA: 10 mg/m³ Inhl TWA: 3 mg/m³ Resp	TWA: 5 mg/m³ Resp TWA: 15 mg/m³ Total 29CFR1910.1000	-	-

### Appropriate engineering controls

**Engineering Controls** Showers, Eyewash stations, Ventilation systems.

# Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin and body protection** Wear protective gloves and protective clothing.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

**General Hygiene Considerations** Avoid contact with skin, eyes or clothing. Avoid breathing (dust, vapor, mist, gas). Wash

face, hands and any exposed skin thoroughly after handling. Use personal protective

equipment as required.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

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#### Information on basic physical and chemical properties

Physical state Solid

AppearancepowderOdorSlight characteristicColorWhiteOdor thresholdNo information available

negligible

Property Values Remarks • Method

pH No information available

Melting point/freezing point 212 °C / 414 °F

**Boiling point / boiling range**  $234 \, ^{\circ}\text{C} \, / \, 453 \, ^{\circ}\text{F}$  Decomposes

Flash point > 234 °C / 453 °F Cleveland Open Cup
Evaporation rate No information available

Flammability (solid, gas) No information available Flammability Limit in Air

Upper flammability limit:No information availableLower flammability limit:No information available

Vapor pressureNo information availableVapor densityNo information availableSpecific Gravity0.880 g/cm3 @ 25°CWater solubilityInsoluble in water

Water solubility
Solubility in other solvents
Partition coefficient
Autoignition temperature
Decomposition temperature
Kinematic viscosity
No information available

**Explosive properties**Dust can form an explosive mixture with air

Oxidizing properties No information available

**Other Information** 

Softening point No information available

Molecular weight 290.42 VOC Content (%) 0

DensityNo information availableBulk densityNo information available

### 10. STABILITY AND REACTIVITY

### **Chemical stability**

Stable under recommended storage conditions.

### **Possibility of Hazardous Reactions**

None under normal processing.

**Hazardous polymerization** Hazardous polymerization does not occur.

#### Conditions to avoid

Avoid creating dust. Dust can form an explosive mixture with air. Extremes of temperature and direct sunlight.

### **Incompatible materials**

Strong oxidizing agents.

#### **Hazardous Decomposition Products**

Carbon monoxide, Carbon dioxide (CO2), lithium oxide,

### 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

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**Product Information** Product does not present an acute toxicity hazard based on known or supplied information.

**Inhalation** Inhalation of dust in high concentration may cause irritation of respiratory system. No

known effect based on information supplied.

Eye contact Dust contact with the eyes can lead to mechanical irritation.

Skin Contact

No data available.

Ingestion

No data available.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Lithium stearate	15000mg/kg (Rat)		
Octadecanoic acid	> 4600 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	

#### Information on toxicological effects

**Symptoms** No information available.

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

**Sensitization**No information available. **Germ cell mutagenicity**No information available.

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA,

IARC or NTP.

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
Aspiration hazard
No information available.
No information available.
No information available.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 1.1% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document

### 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

97.2% of the mixture consists of components(s) of unknown hazards to the aquatic environment

#### Persistence and degradability

No information available.

### **Bioaccumulation**

No information available.

Other adverse effects No information available

# 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated packaging Do not reuse container. Disposal should be in accordance with applicable regional, national

and local laws and regulations.

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### 14. TRANSPORT INFORMATION

**DOT** Not regulated

TDG Not regulated

IATA Not regulated.

IMDG Not regulated

# 15. REGULATORY INFORMATION

### All of the components in the product are on the following Inventory lists

The classification and labeling information in this Safety Data Sheet should be viewed as provisional.

### **International Inventories**

**EINECS/ELINCS** Complies **TSCA** Complies **AICS** Complies DSL/NDSL Complies Complies **ENCS** Complies **KECL** Complies **PICCS** Complies **IECSC** Complies **NZIoC** 

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

### **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). Any Substance regulated Title 40 of the Code of Federal Regulations, Part 372 is listed below, if it exists.

# SARA 311/312 Hazard Categories

Acute health hazard No
Chronic Health Hazard No
Fire hazard No
Sudden release of pressure hazard No
Reactive Hazard No

### **CWA (Clean Water Act)**

Any Substance regulated as a pollutant pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42) is listed below, if it exists.

### **CERCLA**

Any Substance regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) is listed below, if it exists.

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### **US State Regulations**

### **California Proposition 65**

This product does not contain any Proposition 65 chemicals

### U.S. State Right-to-Know Regulations

#### **U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not Applicable

# **16. OTHER INFORMATION**

NFPA Health hazards 1 Flammability 1 Instability 0 Physical and Chemical

Properties -

Health hazards 1 Flammability 1 Physical hazards 0 Personal protection X

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**Revision Note** 

No information available

#### **Disclaimer**

The information provided in this Material 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.

**End of Safety Data Sheet**