

# SAFETY DATA SHEET

Issue Date 28-May-2014 Revision Date 14-May-2015 Version 2

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

**Product identifier** 

Product Name Calcium Stearate FG

Other means of identification

**Biogenix Product Code** 14440; 4052029. 40399

SDS Code CALSTFG Synonyms None

Recommended use of the chemical and restrictions on use

**Recommended Use** Chemical intermediate. Lubricant.

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

Combustible dust -

#### **Label elements**

### **Emergency Overview**

#### Warning

May form combustible dust concentrations in air

The product contains no substances which at their given concentration, are considered to be hazardous to health

Appearance powder Physical state Solid Odor Slight

### Hazards not otherwise classified (HNOC)

Dust can form an explosive mixture with air

Other Information

Unknown Acute Toxicity 0.1% of the mixture consists of ingredient(s) of unknown toxicity

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

CALSTFG: Calcium Stearate FG

Chemical Name	CAS No	Weight-%	Trade Secret
Calcium stearate	1592-23-0	>95	*

<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

Eve 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.).

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

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

Note to physicians Treat symptomatically.

### 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 dioxide (CO2). Carbon monoxide. Hydrocarbons.

#### **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

### 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** 

See Section 12 for additional ecological information. The product is insoluble and floats on **Environmental precautions** 

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.

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#### Methods and material for containment and cleaning up

Methods for cleaning up Use personal protective equipment as required. Take up mechanically, placing in

appropriate containers for disposal. Clean contaminated surface thoroughly. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Avoid creating

dust. Pick up and transfer to properly labeled containers.

### 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.

Strong oxidizing agents. Incompatible materials

#### 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
Calcium stearate 1592-23-0	TWA: 10 mg/m³ except 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/m <sup>3</sup> Resp TWA: 15 mg/m <sup>3</sup> 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).

Wear protective gloves and protective clothing. Skin and body protection

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

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

### Information on basic physical and chemical properties

Physical state Solid **Appearance** powder

Odor Slight

Odor threshold Color white No information available

Values Remarks • Method **Property** 

CALSTFG: Calcium Stearate FG

рΗ No information available

160 °C / 320 °F Melting point/freezing point

Boiling point / boiling range Decomposes Decomposes 176 °C / 349 °F Flash point Cleveland Open Cup

**Evaporation rate** No information available Flammability (solid, gas) No information available

Flammability Limit in Air

**Upper flammability limit:** No information available Lower flammability limit: No information available No information available Vapor pressure Vapor density No information available **Specific Gravity** No information available Water solubility Insoluble in water

Solubility in other solvents No information available No information available **Partition coefficient** No information available **Autoignition temperature Decomposition temperature** No information available Kinematic viscosity No information available **Dynamic viscosity** No information available

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

No information available Oxidizing properties

**Other Information** 

Softening point No information available Molecular weight No information available **VOC Content (%)** No information available **Density** No information available **Bulk density** No information available

Minimum ignition energy (MIE) 100 mJ

### 10. STABILITY AND REACTIVITY

#### Reactivity

No information available.

#### **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 dioxide (CO2), Carbon monoxide, Hydrocarbons.

### 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**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.

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

No data available. **Skin Contact** 

No data available. Ingestion

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Calcium stearate	5000-10000 mg/kg (Rat) >10gm/kg (Mouse)	5000 mg/kg (Rabbit)	
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

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

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

IARC or NTP.

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

#### Numerical measures of toxicity - Product Information

**Unknown Acute Toxicity** 3% of the mixture consists of ingredient(s) of unknown toxicity

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

ATEmix (oral) 5259 mg/kg ATEmix (dermal) 5259 mg/kg

#### 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

0.1% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Calcium stearate 1592-23-0		>100 mg/l		>100 mg/l (Daphnia magna)

#### Persistence and degradability

No information available.

#### **Bioaccumulation**

No information available.

Other adverse effects No information available

#### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

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

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

Not regulated DOT

Not regulated **TDG** 

Not regulated. IATA

**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**

TSCA	Complies
AICS	Complies
DSL/NDSL	Complies
ENCS	Complies
KECL	Complies
PICCS	Complies
IECSC	Complies
NZIoC	Complies

#### 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**

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.

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#### **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.

### **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 0 Flammability 1 Instability 0 Physical and Chemical

Properties -

HMIS Health hazards 0 Flammability 1 Physical hazards 0 Personal protection X

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**Revision Note** 

(M)SDS sections updated 1 5 10

**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**