

# CALCIUM STEARATE

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830  
Date of issue: 01/01/2020 Revision date: 01/01/2020 Version: 1.0

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

#### 1.1. Product identifier

Product form	: Substance
Trade name	: CALCIUM STEARATE
EC-No.	: 216-472-8
CAS-No.	: 1592-23-0
REACH registration No	: not available
Formula	: C18H36O2.1/2Ca
Synonyms	: Octadecanoic acid, calcium salt / Stearate, calcium / Stearic acid, calcium salt / Calcium distearate / Octadecanoic acid, calcium salt (2:1) / CALCIUM STEARATE / Calcium octadecanoate / Stearic acid, calcium salts / Bis(octadecanoic acid)calcium salt / Dioctadecanoate calcium
Other means of identification	: Fatty acids, C16-18, Calcium salts (CAS no. 85251-71-4, EC no.286-484-6)

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

##### 1.2.1. Relevant identified uses

Use of the substance/mixture : Lubricant

##### 1.2.2. Uses advised against

No additional information available

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

FACI ASIA PACIFIC PTE LTD  
1 Merlimau Place, Jurong Island  
Singapore 627862  
Telephone No : (65) 6360 0300  
Fax No : (65) 6360 0303  
[technicalservice@faci.it](mailto:technicalservice@faci.it)

#### 1.4. Emergency telephone number

Emergency number : (65) 6360 0300  
(business hours)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

#### 2.3. Other hazards

other hazards which do not result in classification : May form combustible dust concentrations in air.

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Name	Product identifier	%
CALCIUM STEARATE	(CAS-No.) 1592-23-0 (EC-No.) 216-472-8 (REACH-no) not available	> 98

#### 3.2. Mixtures

Not applicable

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures after inhalation	: Remove person to uncontaminated area. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical advice/attention.
First-aid measures after skin contact	: Gently wash with plenty of soap and water. Remove contaminated clothing. Drench affected area with water for at least 15 minutes. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
First-aid measures after ingestion	: Get immediate medical advice/attention. Do not induce vomiting without medical advice.

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### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after eye contact : Dusts are mechanical irritants.

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : carbon dioxide (CO<sub>2</sub>), water, dry chemical powder.

Unsuitable extinguishing media : Do not use a heavy water stream.

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

Fire hazard : Potential dust explosion hazard from airborne release. High concentrations of dust or fine particulate in enclosed spaces may represent a fire/explosion risk.

Explosion hazard : Potential dust explosion hazard from airborne release. Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Advice for firefighters

Precautionary measures fire : Avoid generation of dust. Keep container tightly closed and away from heat, sparks and flame.

Firefighting instructions : Move undamaged containers from immediate hazard area if it can be done safely. Stay upwind/keep distance from source.

Protective equipment for firefighters : Use self-contained breathing apparatus and chemically protective clothing. Wear fire/flame resistant/retardant clothing.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

Protective equipment : Wear suitable protective clothing. Wear recommended personal protective equipment.

Emergency procedures : Avoid breathing dust. Immediately contact emergency personnel. Evacuate area.

Measures in case of dust release : Mechanically ventilate the spillage area.

#### 6.1.2. For emergency responders

Protective equipment : In case of fire: Wear self-contained breathing apparatus. Wear suitable protective clothing. Wear recommended personal protective equipment.

Emergency procedures : Evacuate and limit access. Take precautionary measures against static discharge. Avoid breathing dust. Material spilled on hard surface can present a serious slipping/falling hazard. Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection.

### 6.2. Environmental precautions

Do not allow to enter into ground-water, surface water or drains.

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

For containment : Contain the spillage using bonding. For larger spills, dike area and pump into waste containers. . Mechanically ventilate the spillage area. Use clean-up methods that avoid dust generation (vacuum wet).

Methods for cleaning up : Avoid creating or spreading dust. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.

### 6.4. Reference to other sections

For disposal of residues refer to section 13 : Disposal considerations.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : Generation of airborne dust. Dust may form flammable and explosive mixture with air.

Precautions for safe handling : Do not breathe dust. Use approved industrial vacuum cleaner for removal. Avoid raising powdered materials into airborne dust. Provide local exhaust or general room ventilation to minimize exposure to dust. Use grounded electrical/mechanical equipment. Use explosion-proof equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing prior to re-use. Handle in accordance with good industrial hygiene and safety practice.

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

Storage conditions : Store in a dry, cool area. Keep container tightly closed.

Maximum storage period : 24 months

Heat and ignition sources : Keep away from open flames, hot surfaces and sources of ignition.

Special rules on packaging : Keep only in original container.

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### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### CALCIUM STEARATE (1592-23-0)

Belgium	Limit value (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Italy	OEL TWA (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> STEARATES (EXCEPT STEARATES OF TOXIC METALS), RESPIRABLE FRACTION
Lithuania	IPRV (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> (Stearates)
Portugal	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Spain	VLA-ED (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> (total dust (Stearates))
USA - ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> STEARATES (EXCEPT STEARATES OF TOXIC METALS), RESPIRABLE FRACTION

### 8.2. Exposure controls

#### Appropriate engineering controls:

Provide adequate ventilation to minimize dust concentrations. Either local exhaust or general room ventilation is usually required. A washing facility/water for eye and skin cleaning purposes should be present.

#### Personal protective equipment:

Gloves. In case of dust production: protective goggles. Protective clothing. Respiratory protection.

#### Materials for protective clothing:

Wear chemical resistant protective clothing (EN 14605) and protective shoes (S1P or S3)

#### Hand protection:

Wear suitable gloves tested to EN 374. Thickness of the glove material > 0.11 mm. Breakthrough time : > 480 min. Nitrile rubber

#### Eye protection:

In case of dust production: protective goggles. EN 166

#### Respiratory protection:

Dust production: dust mask with filter type P2

#### Personal protective equipment symbol(s):



## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Colour	: white.
Odour	: Slightly fatty.
Odour threshold	: No data available
pH	: 7 - 9 20 °C, solution in water
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 145 - 175 °C
Freezing point	: No data available
Boiling point	: not applicable
Flash point	: ≈ 200 °C C.O.C. method
Auto-ignition temperature	: 400 °C
Decomposition temperature	: > 350 °C
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: not applicable

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Relative density	: No data available
Density	: 1.095 g/m <sup>3</sup> melted
Solubility	: Water: Insoluble Organic solvent: Partially soluble
Log Pow	: 0.8
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: not explosive. Dust may form explosive mixture in air.
Oxidising properties	: Not oxidizing.
Explosive limits	: No data available

### 9.2. Other information

Bulk density	: 190 - 260 g/L
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions of use.

### 10.2. Chemical stability

Stable under normal conditions of use.

### 10.3. Possibility of hazardous reactions

None under normal conditions.

### 10.4. Conditions to avoid

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

### 10.5. Incompatible materials

Strong acids and oxidants.

### 10.6. Hazardous decomposition products

Thermal decomposition generates : Calcium oxides. Carbon oxides (CO, CO<sub>2</sub>).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

### CALCIUM STEARATE (1592-23-0)

LD50 oral rat	> 10 g/kg
Skin corrosion/irritation	: Not classified pH: 7 - 9 20 °C, solution in water
Serious eye damage/irritation	: Not classified pH: 7 - 9 20 °C, solution in water
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

## SECTION 12: Ecological information

### 12.1. Toxicity

Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified

### 12.2. Persistence and degradability

#### CALCIUM STEARATE (1592-23-0)

Persistence and degradability	Readily biodegradable.
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### 12.3. Bioaccumulative potential

#### CALCIUM STEARATE (1592-23-0)

Log Pow	0.8
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### 12.4. Mobility in soil

No additional information available

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### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Can be deposited in landfills, sent to an incineration or other appropriate means of disposal provided they meet the requirements of local laws.

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.2. UN proper shipping name</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.4. Packing group</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

### 14.6. Special precautions for user

#### Overland transport

Not applicable

#### Transport by sea

Not applicable

#### Air transport

Not applicable

#### Inland waterway transport

Not applicable

#### Rail transport

Not applicable

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

CALCIUM STEARATE is not on the REACH Candidate List

CALCIUM STEARATE is not on the REACH Annex XIV List

CALCIUM STEARATE\_07162019 is not subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

CALCIUM STEARATE\_07162019 is not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC

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### 15.1.2. National regulations

Listed on the AICS (Australian Inventory of Chemical Substances)  
Listed on the Canadian DSL (Domestic Substances List)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on the Korean ECL (Existing Chemicals List)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the United States TSCA (Toxic Substances Control Act) inventory  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)

#### Germany

Reference to AwSV : Water hazard class (WGK) nwg, Non-hazardous to water (Classification according to VwVwS, Annex 3; ID No. 3160)  
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

#### Netherlands

SZW-lijst van kankerverwekkende stoffen : The substance is not listed  
SZW-lijst van mutagene stoffen : The substance is not listed  
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : The substance is not listed  
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : The substance is not listed  
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : The substance is not listed

#### Denmark

Classification remarks : Emergency management guidelines for the storage of flammable liquids must be followed

### 15.2. Chemical safety assessment

CSA is not required

The substance is not hazardous

## SECTION 16: Other information

Abbreviations and acronyms:	
CLP	CLP - Classification, Labelling and Packaging
REACH	REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals
SDS	SDS - Safety Data Sheet
CSR	CSR - Chemical Safety Report
ADR	Overland transport (ADR)
CAS	CAS (Chemical Abstracts Service) number
PBT	PBT - Persistent, Bioaccumulative and Toxic substance
vPvB	vPvB - Very Persistent and Very Bioaccumulative
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LD50	Median lethal dose

SDS EU (REACH Annex II)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*