

## Material Safety Data Sheet

### CALCIUM STEARATE

#### Section 1 - Product Identification

Product Name : Calcium Stearate  
CAS No. : 1592-23-0  
Synonym : Calcium distearate; Calcium octadecanoate; Octadecanoic Acid, Calcium Salt; Stearic acid, calcium salt  
Company Identification : Tradeasia International Pte. Limited  
Address :  
133 Cecil Street # 12-03 Keck Seng Tower, Singapore  
Tel: +65-6227 6365  
Fax: +65-6225 6286  
Email: contact@chemtradeasia.com

#### Section 2 – Composition/Information on Ingredients

##### Substances

Name of substance	Calcium Stearate
Identifiers	
CAS No	1592-23-0
Molecular formula	C <sub>36</sub> H <sub>70</sub> Ca O <sub>4</sub>
Molar Mass	607 g /mol

#### Section 3 – Hazardous Ingredients & Occupational Exposure Limits

##### 3.1 Classification of the substance or mixture

##### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 4), H302  
Acute toxicity, Dermal (Category 4), H312  
Skin irritation (Category 2), H315

##### 3.2 GHS Label elements, including precautionary statements

Pictogram – None required  
Signal word - Warning

##### Hazard statement(s)

H303+H313 May be harmful if swallowed or in contact with skin

##### Precautionary statement(s)

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

##### 3.3 Hazards not otherwise classified (HNOC) or not covered by GHS – none

#### Section 4 – First-Aid Measures

**Eye Contact.** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

**Skin Contact.** Wash off immediately with plenty of water for at least 15 minutes. Get medical attention.

**Ingestion.** Do NOT induce vomiting. Get medical attention.

**Inhalation Remove to fresh air.** Get medical attention. If not breathing, give artificial respiration.

**Self-Protection of the First Aider.** No special precautions required.

## Section 5 – Employee Protection

**Extinguishing media** - Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special hazards arising from the substance or mixture** - no data available

**Advice for firefighters** - Wear self contained breathing apparatus for fire fighting if necessary

**Further information** - Under fire conditions, material may decompose to form flammable and/or explosive mixtures in air. Use water spray to cool unopened containers.

## Section 6 – Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

## Section 7 – Handling and Storage

**Handling:** Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. May form flammable dust-air mixtures. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

**Storage:** Store in a cool, dry, well-ventilated area away from incompatible substances. Keep containers tightly closed.

## Section 8 – Exposure Controls/Personal Protection (later)

### Exposure Controls

OSHA PEL : No OSHA PEL

ACGIH TLV : No ACGIH TLV

NIOSH REL : TWA 5 mg/m3 respirable.

: TWA 10 mg/m3 total.

### Appropriate Engineering Controls

If a dust exists, install ventilation equipped with filters. Ventilation should be 10 air exchanges per hour. Local exhaust ventilation is recommended.

### Personal Protection Equipment

Rubber gloves and safety glasses. Dust mask if dust exists.

## Section 9 – Physical and Chemical Properties

### Information on basic physical and chemical properties

Physical State: Solid

Appearance: white

Odor: slight odor

pH: Not available.

Vapor Pressure: Not available.

Vapor Density: Not available.

Evaporation Rate: Not available.  
Viscosity: Not available.  
Boiling Point: Not available.  
Freezing/Melting Point: 145-160 deg C  
Decomposition Temperature: Not available.  
Solubility: Almost insoluble in water.  
Specific Gravity/Density: 1.03  
Molecular Formula:  $\text{Ca}(\text{CH}_3(\text{CH}_2)_{16}\text{COO})_2$   
Molecular Weight: 607

#### Other information

No additional information available.

### Section 10 – Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures.

**Conditions to Avoid:** Dust generation, excess heat.

**Incompatibilities with Other Materials:** Strong oxidizing agents.

**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, calcium hydroxide.

**Hazardous Polymerization:** Will not occur.

### Section 11 – Toxicological Information

**RTECS#:**

**CAS#** 1592-23-0: WI3000000

**LD50/LC50:**

**CAS#** 1592-23-0:

Oral, mouse: LD50 = >10 gm/kg;

Oral, rat: LD50 = >10 gm/kg;

**Carcinogenicity:**

**CAS#** 1592-23-0: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

**Epidemiology:** No information found

**Teratogenicity:** No information found

**Reproductive Effects:** No information found

**Mutagenicity:** No information found

**Neurotoxicity:** No information found

**Other Studies:**

### Section 12 – Ecological Information

**Toxicity.** acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment.

**Persistence and degradability.** Readily biodegradable. Insoluble in water.

**Bioaccumulative potential.** May have some potential to bioaccumulate

**Mobility in soil.** Spillage unlikely to penetrate soil. Is not likely mobile in the environment due its low water solubility.

**Results of PBT and vPvB assessment.** Substance is not considered persistent, bioaccumulative and toxic (PBT) / very persistent and very bioaccumulative (vPvB). **Endocrine disrupting properties.** This product does not contain any known or suspected endocrine disruptors

**Other adverse effects.** Data are not available.

## Section 13 – Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**RCRA P-Series:** None listed.

**RCRA U-Series:** None listed.

## Section 14 – Transport Information

**DOT Classification:** : Calcium Stearate. No other information available.

**Identification:** : Not regulated.

**Special Provisions for Transport:** Not applicable.

## Section 15 – Regulatory Information

### 1. US Federal regulations

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Not listed on the United States SARA Section 313

None of the chemicals in this material have an RQ.

None of the chemicals in this product have a TPQ.

### 2. International regulations

#### CANADA

##### Canada - DSL/NDL

CAS# 1592-23-0 is listed on Canada's DSL List.

##### Canada - WHMIS

This product has a WHMIS classification of D2B.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

##### Canadian Ingredient Disclosure List

CAS# 1592-23-0 is not listed on the Canadian Ingredient Disclosure List.

#### EU-Regulations

##### European Labeling in Accordance with EC Directives

##### Hazard Symbols:

XI

##### Risk Phrases:

R 36/37 Irritating to eyes and respiratory system.

**Safety Phrases:**

S 22 Do not breathe dust.

S 24/25 Avoid contact with skin and eyes.

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 28A After contact with skin, wash immediately with plenty of water

**3. National regulations**

No additional information available

**4. US State regulations**

No additional information available

**Section 16 - Additional Information**

**References:** Not available.

**Other Special Considerations:** Not available.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall Tradeasia International Pte. Ltd. Be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Tradeasia International Pte. Ltd. has been advised of the possibility of such damages