



## MATERIAL SAFETY DATA SHEET (MSDS)

Code: HS-04401  
ISO Section: 7.2.1  
Revision Nr: 02  
Revision Date: 17/10/2008  
Page: 1 de 5

### SECTION I CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Chemical Name:** **CALCIUM STEARATE (ALL GRADES)** **Supplier:** Corporación Sierra Madre, SA de CV  
Carretera a García, Km 8.5  
**Synonymous:** Calcium Octadecanoate, Calcium Salt of Stearic Acid, Calcium distearate, Calcium Stearate. **García, NL, ZC 66000 PO Box 1364 Mexico**

**Chemical formula:**  $\text{Ca}(\text{C}_{18}\text{H}_{35}\text{O}_2)_2$  **Phone/Fax:** +52 (81) 8345-4024/8345-7991  
**CAS Number:** 1592-23-0  
**EINECS Number:** 216-472-8

### SECTION II COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name:	CAS Number:	EINECS Number:	% Percent
Calcium Stearate	1592-23-0	216-472-8	100%

### SECTION III HAZARDS IDENTIFICATION

**Appearance:** White solid

**Warning:** Cause eye and respiratory tract irritation. May cause skin irritation.

**Target Organs:** Respiratory systems, eyes.

**Acute Health Effects:** Irritating to the skin and eyes on contact. Inhalation will cause irritation to the lungs and mucus membrane. Irritation to the eyes will cause watering and redness. Reddening, scaling, and itching are characteristics of skin inflammation. Follow safe industrial hygiene practices and always wear protective equipment when handling this compound.

**Chronic Health Effects:** This product has no known chronic effects. Repeated or prolonged exposure to this compound is not known to aggravate medical conditions.

**Carcinogenicity:** This product is not listed by NTP, IARC or regulated as a Carcinogen by OSHA.

### SECTION IV FIRST AID MEASURES

**Eyes:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

**Skin:** In case of contact, flush skin with water. Wash clothing before reuse. Call a physician if irritation occurs.

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

**Ingestion:** If swallowed, call a physician immediately.

### SECCIÓN V FIRE FIGHTING MEASURES

**Flammability:** Non-Flammable.

**Flash point:** Not applicable.

**Auto-ignition temperature:** 398.9 deg C ( 750.02 deg F).



## MATERIAL SAFETY DATA SHEET (MSDS)

<b>Code:</b>	<b>HS-04401</b>
<b>ISO Section:</b>	<b>7.2.1</b>
<b>Revision Nr:</b>	<b>02</b>
<b>Revision Date:</b>	<b>17/10/2008</b>
<b>Page:</b>	<b>2 de 5</b>

<i>Explosion Limits:</i>	Lower: 0.025g/L Upper: Not available.
<i>Extinguishing media:</i>	Water Spray, Foam, Carbon Dioxide or Dry Chemical.
<i>Fire Fighting Procedures:</i>	Burning will produce toxic fumes. Wear self-contained breathing apparatus and full turnout gear to fight fires.
<i>Fire/Explosion Hazards:</i>	Concentrated dust may present an explosion hazard.

### SECTION VI ACCIDENTAL RELEASE MEASURES

<i>Spill or Leak Procedures:</i>	Utilize recommended protective clothing and equipment. Clean spills in a manner that does not disperse dust into the air. Spill area can be washed with water. Collect wash water for approved disposal. Keep from entering water or ground water.
----------------------------------	--

### SECTION VII HANDLING AND STORAGE

<i>Storage Temperature</i>	Store at ambient temperature.
<i>Shelf Life:</i>	Unlimited in tightly closed container.
<i>Special Sensitivity:</i>	None.
<i>Handling/Storage Precautions:</i>	Avoid breathing dust. Avoid getting in eyes or on skin. Wash thoroughly after handling. Store in a dry place away from direct sunlight, heat and incompatible materials (see Section X). Reseal containers immediately after use. Store away from food and beverages.

### SECTION VIII EXPOSURE CONTROLS/PERSONAL PROTECTION

<i>Eye Protection:</i>	Safety glasses or goggles.
<i>Skin Protection:</i>	PVC gloves with impervious boots, apron or coveralls. Employees should wash their hands and face before eating, drinking or using tobacco products.
<i>Respirator:</i>	Work ambient concentrations should be monitored and if the recommended exposure limit is exceeded, a NIOSH/MSHA approved dust respirator must be worn.
<i>Ventilation:</i>	Use local ventilation if dusting is a problem, to maintain air levels below the recommended exposure limit.
<i>Additional Protective Measures:</i>	Emergency showers and eye wash stations should be available. Educate and train employees in the safe use and handling of hazardous chemicals.

### SECTION IX PHYSICAL AND CHEMICAL PROPERTIES

<i>Physical Form:</i>	Solid powder/granular (depend of the grade).
<i>Color:</i>	White to Off White.
<i>Odor:</i>	Slight fatty odor.
<i>Molecular Weight:</i>	582.
<i>Boiling Point:</i>	No established.



## MATERIAL SAFETY DATA SHEET (MSDS)

<b>Code:</b>	<b>HS-04401</b>
<b>ISO Section:</b>	<b>7.2.1</b>
<b>Revision Nr:</b>	<b>02</b>
<b>Revision Date:</b>	<b>17/10/2008</b>
<b>Page:</b>	<b>3 de 5</b>

*Melting Point:* 145 – 160° C.  
*Solubility In Water:* Insoluble, repellent.  
*Specific Gravity:* 1.03  
*Molecular Weight:* 607

### SECCIÓN X STABILITY AND REACTIVITY

*Stability:* Stable under normal handling and storing conditions.  
*Hazardous Polymerization:* Will not occur.  
*Incompatibility:* Strong Oxidizers.  
*Instable Conditions:* Excessive temperatures (see Incompatibilities).  
*Decomposition Temperature:* Not Established.  
*Decomposition Products:* Calcium Oxide, Carbon Dioxide, Carbon Monoxide.

### SECTION XI TOXICOLOGICAL INFORMATION

*RTECS Number:* Not Established.  
*Routes of Exposure:* Eye contact. Ingestion. Inhalation. Skin contact.  
*Toxicity Data:* Oral, mouse: LD50 = >10 gm/kg;  
Oral, rat: LD50 = >10 gm/kg;  
*Chronic Toxic Effects:* This product has no known chronic effects. Repeated or prolonged exposure to this compound is not known to aggravate medical conditions.  
*Acute Toxic Effects:* Irritating to the skin and eyes on contact. Inhalation will cause irritation to the lungs and mucus membrane. Irritation to the eyes will cause watering and redness. Reddening, scaling, and itching are characteristics of skin inflammation. Follow safe industrial hygiene practices and always wear protective equipment when handling this compound.

### SECCIÓN XII ECOLOGICAL INFORMATION

*Ecotoxicity:* Not available at this time.

### SECTION XIII DISPOSAL CONSIDERATIONS

*Waste Disposal Method:* Waste disposal should be in accordance with existing federal, state and local environmental regulations.

### SECCIÓN XIV TRANSPORTATION INFORMATION

*Proper Shipping Name:*                      *UN Number:*                      *Packaging Group:*                      *Class:*                      *DOT Label:*





## MATERIAL SAFETY DATA SHEET (MSDS)

Code:	HS-04401
ISO Section:	7.2.1
Revision Nr:	02
Revision Date:	17/10/2008
Page:	5 de 5

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.

## SECTION XVI OTHER INFORMATION

HIMS Rating:

Health	0
Flammability	1
Reactivity	0
Personal Protection	E

### Disclaimer:

“This information is intended solely for the use of individuals trained in the particular hazard rating system.

This Material Safety Data Sheet (MSDS) was prepared by Corporación Sierra Madre, SA de CV. The information herein is given in good faith but no warranty, expressed or implied, is made”.

\*\*\* END OF DOCUMENT\*\*\*