SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

1.1. Product Identifier

Product Form: Substance

Product Name: Calcium Stearate Tallow Based Powder

CAS No: 1592-23-0

Synonyms: Calcium Stearate; Calcium Salt of Stearic Acid

1.2. Intended Use of the Product

Use of the substance/mixture: Per FDA 21CFR - § 175.105 (c)(5) Adhesives. § 175.300 (b)(3)(xxii) Resinous and polymeric coatings. § 176.170 (a)(5) Components of paper and paperboard in contact with aqueous and fatty foods. § 176.200 (d)(3) Defoaming agents used in coatings. § 176.210 (d)(2) Defoaming agents used in the manufacture of paper and paperboard. § 177.1200 Cellophane - Fatty Acids derived from animal or vegetable fats and oils, and the following salts of such acids, single or mixed: calcium. § 177.2600 Rubber articles intended for repeated use - (c)(4)(iv) Plasticizers (total not to exceed 30 percent by weight of rubber product unless otherwise specified) § 178.2010 (b) Antioxidants and/or stabilizers for polymers § 178.3910 (b)(2) Surface lubricants used in the manufacture of metallic articles § 181.29 Stabilizers

1.3. Name, Address, and Telephone of the Responsible Party

Company
Acme-Hardesty Co.
450 Sentry Parkway
Blue Bell, PA 19422
T 866-226-3834  T 215-591-3610
www.acme-hardesty.com

1.4. Emergency Telephone Number

Emergency Number: 800-424-9300

For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident, call CHEMTREC – Day or Night

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

Classification (GHS-US)
Comb. Dust

2.2. Label Elements

GHS-US Labeling

Signal Word (GHS-US): Warning
Hazard Statements (GHS-US): May form combustible dust concentrations in air

2.3. Other Hazards

No additional information available

2.4. Unknown Acute Toxicity (GHS-US)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

<table>
<thead>
<tr>
<th>Name</th>
<th>Product Identifier</th>
<th>%</th>
<th>Classification (GHS-US)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium stearate</td>
<td>(CAS No) 1592-23-0</td>
<td>100</td>
<td>Comb. Dust</td>
</tr>
</tbody>
</table>

3.2. Mixture

Not applicable

Full text of H-phrases: see section 16
SECTION 4: FIRST AID MEASURES

4.1. Description of First Aid Measures
First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid Measures After Inhalation: When symptoms occur: go into open air and ventilate suspected area.
First-aid Measures After Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes.
First-aid Measures After Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
First-aid Measures After Ingestion: Rinse mouth. Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed
Symptoms/Injuries: None expected under normal conditions of use.
Symptoms/Injuries After Inhalation: Dust from this product may cause irritation to the respiratory tract.
Symptoms/Injuries After Skin Contact: Skin contact with large amounts of dust may cause mechanical irritation.
Symptoms/Injuries After Eye Contact: Eye contact with large amounts of dust may cause mechanical irritation.
Symptoms/Injuries After Ingestion: May cause nausea, vomiting, and diarrhea.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed
If medical advice is needed, have product container or label at hand.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing Media
Suitable Extinguishing Media: Carbon dioxide, dry chemical powder, alcohol foam, polymer foam, water spray. Use extinguishing media suitable for surrounding type of fire.
Unsuitable Extinguishing Media: Water or foam may cause frothing.

5.2. Special Hazards Arising From the Substance or Mixture
Fire Hazard: Combustible Dust
Explosion Hazard: Dust clouds can be explosive.
Reactivity: Stable at ambient temperature and under normal conditions of use.

5.3. Advice for Firefighters
Firefighting Instructions: Exercise caution when fighting any chemical fire.
Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures
General Measures: Avoid generating dust. Can be slippery on hard, smooth walking area.
6.1.1. For Non-emergency Personnel
Protective Equipment: Use appropriate personal protection equipment (PPE).
6.1.2. For Emergency Responders
Protective Equipment: Equip cleanup crew with proper protection.
Emergency Procedures: Ventilate area.

6.2. Environmental Precautions
Prevent entry to sewers and public waters.

6.3. Methods and Material for Containment and Cleaning Up
For Containment: Avoid generation of dust during clean-up of spills. Use a soft bristle brush or conductive rubber or conductive plastic shovel. Use caution, material is sensitive to initiation from sources such as heat, flame, shock, friction, or sparks. Use only non-sparking tools.
Methods for Cleaning Up: Clear up spills immediately and dispose of waste safely.

6.4. Reference to Other Sections
See heading 8, Exposure Controls and Personal Protection.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling
Additional Hazards When Processed: May form combustible dust concentrations in air. Use care during processing to minimize generation of dust.
Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

7.2. Conditions for Safe Storage, Including Any Incompatibilities
Technical Measures: Good housekeeping is needed during storage, transfer, handling, and use of this material to avoid excessive dust accumulation.

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use.

Incompatible Products: Strong oxidizers.

Incompatible Materials: Keep away from strong oxidizers.

Storage Temperature: In bulk, store at about 5-10 °C (41-50 °F) above melting point or at ambient temperature.

Storage Area: Temperature higher than necessary degrades quality at rates dependent on time and temperature of exposure.

Special Rules on Packaging: Stainless steel preferred for storage.

7.3. Specific End Use(s) See section 1.2

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters
No Occupational Exposure Limits (OELs) have been established for this product or its chemical components.

8.2. Exposure Controls

Appropriate Engineering Controls

: Avoid dust production. Avoid high dust concentration. Provide adequate ventilation to minimize dust concentrations.

Personal Protective Equipment


Hand Protection

: Rubber gloves.

Eye Protection

: Chemical goggles or safety glasses.

Respiratory Protection

: When manufacturing or handling product in large quantities and dusts or particulates may be generated, maintain airborne concentrations below recommended limits. Workplace risk assessments should be completed before specifying and implementing respirator usage. NIOSH/MSHA approved respirators for protection should be used if respirators are found to be necessary. Wear approved mask.

Other Information

: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State

: Solid

Appearance

: Fine white powder

Odor

: Slight fatty

Odor Threshold

: No data available

pH

: No data available

Relative Evaporation Rate (butylacetate=1)

: No data available

Melting Point

: 145 - 165 °C (293 - 329°F)

Freezing Point

: No data available

Boiling Point

: Unknown

Flash Point

: > 177 °C (350.6°F) Open Cup

Auto-ignition Temperature

: > 371.11 °C (700°F)

Decomposition Temperature

: No data available

Flammability (solid, gas)

: No data available

Vapor Pressure

: No data available

Relative Vapor Density at 20 °C

: No data available

Relative Density

: 1 (Water = 1)

Specific Gravity

: Not available

Solubility

: Insoluble in water
Partition coefficient: n-octanol/water: Not available
Viscosity: Not available
Explosive Properties: No data available
Oxidizing Properties: No data available
Explosive Limits: Not applicable

9.2. Other Information
VOC content: 3 % Moisture

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity: Stable at ambient temperature and under normal conditions of use.
10.2 Chemical Stability: Dust clouds can be explosive.
10.3 Possibility of Hazardous Reactions: Hazardous polymerization will not occur.
10.4 Conditions to Avoid: Avoid creating or spreading dust. Avoid ignition sources. Direct sunlight. Extremely high or low temperatures. Sparks, heat, open flame and other sources of ignition.
10.5 Incompatible Materials: Strong oxidizers.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information On Toxicological Effects
Acute Toxicity: Not classified
Skin Corrosion/Irritation: Not classified
Serious Eye Damage/Irritation: Not classified
Respiratory or Skin Sensitization: Not classified
Germ Cell Mutagenicity: Not classified
Carcinogenicity: Not classified
Reproductive Toxicity: Not classified
Specific Target Organ Toxicity (Single Exposure): Not classified
Specific Target Organ Toxicity (Repeated Exposure): Not classified
Aspiration Hazard: Not classified
Symptoms/Injuries After Inhalation: Dust from this product may cause irritation to the respiratory tract.
Symptoms/Injuries After Skin Contact: Skin contact with large amounts of dust may cause mechanical irritation.
Symptoms/Injuries After Eye Contact: Eye contact with large amounts of dust may cause mechanical irritation.
Symptoms/Injuries After Ingestion: May cause nausea, vomiting, and diarrhea.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity No additional information available
12.2. Persistence and Degradability
Calcium Stearate Tallow Based Powder (1592-23-0)
Persistence and Degradability: Not established.
12.3. Bioaccumulative Potential
Calcium Stearate Tallow Based Powder (1592-23-0)
Bioaccumulative Potential: Not established.
12.4. Mobility in Soil No additional information available
12.5. Other Adverse Effects
Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods
Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations.
SECTION 14: TRANSPORT INFORMATION
In Accordance With ICAO/IATA/IMDG/DOT
14.1. UN Number Not regulated for transport
14.2. UN Proper Shipping Name Not regulated for transport
14.3. Additional Information
Other information: No supplementary information available.
Transport by Sea Not regulated for transport
Air Transport Not regulated for transport

SECTION 15: REGULATORY INFORMATION
15.1 US Federal Regulations
Calcium stearate (1592-23-0)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2 US State Regulations
Calcium stearate (1592-23-0)
U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term

SECTION 16: OTHER INFORMATION
Revision date: 10/06/2014
Other Information: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:
| Comb. Dust | Combustible Dust | May form combustible dust concentrations in air |

The data herein are based on our current knowledge and believed to be reliable. Acme-Hardesty Co., provides this information without any representation or warranty, expressed or implied, regarding its accuracy or correctness.

Users must make their own determination that handling, storage, use and disposal of the product in the anticipated manner is safe and appropriate. Because these actions of the user are out of our control, and may be beyond our knowledge, we do not assume responsibility and expressly disclaim liability for loss, damage, expense or any other claim arising out of or in any way connected with the handling, storage, use or disposal of the product or container.

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