

Material Safety Data Sheet



PRODUCT NAME: CALCIUM STEARATE TALLOW BASED POWDER

CHEMICAL PRODUCT AND DISTRIBUTOR IDENTIFICATION

TRADE NAME: CALCIUM STEARATE TALLOW BASED POWDER
CAS#: 1592-23-0
EINECS#: 216-472-8
DATE: April 25, 2012

DISTRIBUTOR: ACME-HARDESTY COMPANY
ADDRESS: 450 Sentry Parkway
Blue Bell, PA 19422

TELEPHONE: (866) 226 – 3834
FAX: (215) 591 – 3620
EMERGENCY: CHEMTREC (800) 424-9300

COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME:	CHEMICAL FORMULA	CAS#	%
Calcium Stearate	Ca(C ₁₈ H ₃₅ O ₂) ₂	1592-23-0	100%

HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

PHYSICAL HAZARDS: Combustible dust.
Potential explosive hazard when finely dispersed material is suspended in the air at sufficient concentration and in the presence of an ignition source.

HEALTH HAZARDS: Irritant

EXPOSURE LIMITS: OSHA Permissible Exposure Limit (PEL): 15 mg/m³ total dust.
ACGIH Threshold Limit Value (TLV): 10 mg/m³ for total dust for stearates.

ROUTES OF EXPOSURE:

SKIN: May cause irritation and redness of the skin
EYES: Dust may irritate the eyes in the capacity of foreign body, no damage caused
INHALATION: Breathing dust may irritate the nose and throat
May cause coughing and chest discomfort
No permanent damage caused
INGESTION: Very low toxicity
None currently known

OVER-EXPOSURE EFFECTS: Pre-existing disorders of the following organs (or organ systems) may be aggravated by exposure to this material: lung (for example, asthma-like conditions).

HMIS RATING: Health: 0 NFPA RATING: Health: 0
Flammability: 1 Flammability: 1
Reactivity: 0 Reactivity: 0

FIRST AID MEASURES

SKIN CONTACT: Immediately remove any contaminated clothing.
Wash contaminated area thoroughly with soap and copious amounts of water for at least 15 minutes.
If irritation or adverse symptoms develop, seek medical attention.

EYE CONTACT: Remove any contact lenses at once.
Flush eyes with water for at least 15 minutes.
Ensure adequate flushing by separating the eyelids with fingers.
If irritation or adverse symptoms develop, seek medical attention.

INHALATION: Remove to fresh air,
If coughing, breathing becomes labored, irritation develops or other symptoms develop, seek medical attention at once, even if symptoms develop several hours after the exposure.

INGESTION: Contact a physician, hospital or Poison Control Center at once.

FIRE FIGHTING MEASURES

FLASH POINT: > 350°F / 177°C (COC)

AUTO-IGNITION TEMP: > 700°F / 371°C

FLAMMABLE LIMIT: Not established

UNUSUAL FIRE/EXPLOSION HAZARD: Concentrated dust may present an explosion hazard

EXTINGUISHING MEDIA: Water spray, foam, carbon dioxide or dry chemical

FIRE-FIGHTING PROCEDURE: Burning will produce toxic fumes.
Firemen should be equipped with SCBA with a full face piece operated in the positive pressure demand mode with appropriate turnout gear and chemical resistant personal protective equipment.

ACCIDENTAL RELEASE MEASURES

HANDLING: Remove all sources of ignition.
Ventilate area of leak or spill.
Wear appropriate personal protective equipment as identified in Exposure Control/Personal Protection section

SPILLS: Clean up spills in a manner that does not disperse dust into the air.
Use non-sparkling tools and equipment.
Reduce airborne dust and prevent scattering by moistening with water.
Pick up spill for recovery or disposal and place in a closed container.

PHYSICAL/CHEMICAL CHARACTERISTICS

APPEARANCE: Fine white powder

ODOR: Slight fatty odor

SOLUBILITY IN WATER: Practically Insoluble

BOILING POINT, °F: Not established

SOFTENING POINT, °C: 145-165

VAPOR PRESSURE, mm Hg: Not established

% VOLATILE BY VOLUME: 3.0 Moisture

EVAPORATION RATE: < 1 (ethyl ether = 1)

VAPOR DENSITY (Air = 1): Not established

SPECIFIC GRAVITY (water=1): 1.0

FLASH POINT: > 350°F / 177°C (Cleveland Open Cup)

AUTO-IGNITION TEMP: > 700°F / 371°C

FLAMMABLE LIMIT: Not established

HANDLING AND STORAGE

HANDLING: Avoid dust formation and control ignition sources.
Employ grounding, venting and explosion relief provisions in accordance with accepted engineering practices in any process capable of generating dust and/or static electricity.
Empty only into inert or non-flammable atmosphere
Emptying contents into a non-inert atmosphere where flammable vapors may be present could cause a flash fire or explosion due to electrostatic discharge.
DO NOT USE NEAR FOOD OR DRINK.
Avoid eye contact.
Use with adequate ventilation.
Wear personal protection equip. recommended in Exposure Control/Personal Protection section
Reseal containers immediately after use.

STORAGE: Keep in a tightly closed container, stored in a cool, dry, ventilated area.
Protect against physical damage.
DO NOT STORE WITH FOOD OR DRINK.

OTHER PRECAUTIONS: Use good personal hygiene practices.
Wash hands before eating, drinking, smoking, or using toilet facilities.
Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for this product.

EXPOSURE CONTROLS AND PERSONAL PROTECTION

RESPIRATORY: Work ambient concentrations should be monitored
If airborne concentrations are expected to exceed acceptable levels, wear a NIOSH approved dust air-purifying respirator.
When using respirators, refer to OSHA's 29CFR 1910.134

PROTECTION OF HANDS: Protective gloves recommended.

EYE PROTECTION: Safety goggles recommended.
Permanent eyewash is highly recommended.

VENTILATION: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below level of overexposure.

OTHER: Emergency showers and eye wash stations should be available.

STABILITY & REACTIVITY

STABILITY: Stable under ordinary conditions of use and storage.

MATERIALS TO AVOID: Avoid contact with peroxides, strong mineral acids and strong oxidizing agents.

HAZARDOUS DECOMP PROD: Carbon dioxide, carbon monoxide and sodium oxide.

HAZARDOUS POLYMERIZATION: Will not occur

ECOLOGICAL INFORMATION

No data is available on the preparation itself.
The product should be prevented from entering drains, sewers, streams, etc.

DISPOSAL CONSIDERATIONS

Prevent material from entering drains, sewers, streams, etc.
Immediately dispose of waste material in accordance with federal, state and local regulations.

TOXICOLOGICAL INFORMATION

HAZARD DATA:

INHALATION: Mammal (species unspecified)--LC: >1241 mg/m³/4H
INTRAPERITONEAL: Mouse--LD₅₀: >10 gm/kg
ORAL: Mouse and Rat--LD₅₀: >10 gm/kg

TRANSPORT CONSIDERATIONS

DOT (US): Not hazardous material.

UN/NA ID No.: N/A
Proper Shipping Name: N/A
Hazard Class: N/A
Packing Group: N/A

IATA: Not dangerous goods.

UN/NA ID No.: N/A
Proper Shipping Name: N/A
Hazard Class: N/A
Packing Group: N/A

IMDG: Not dangerous goods.

UN/NA ID No.: N/A
Proper Shipping Name: N/A
Hazard Class: N/A
Packing Group: N/A

NMFC CLASSIFICATION: Metallic Soaps of Fatty Acid
Class 65

REGULATORY INFORMATION

The following chemicals are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

CHEMICAL NAME	CAS#	%
None	N/A	N/A

REPORTABLE QUANTITY: None

INVENTORIES:

TSCA: US Toxic Substances Control Act (
AICS: Australian Inventory of Chemical Substances
DSL: Canadian Domestic Substances List
IECSC: Chinese Inventory of Existing Chemical Substances Manufactured or Imported in China
EINECS: European Inventory of Existing Commercial Chemical Substances
ENCS: Japanese Existing and New Chemical Substances
ECL: Korean Existing Chemicals List
PICCS: Philippines Inventory of Chemicals and Chemical Substances

CARCINOGENICITY STATUS: IARC: Not recognized as a carcinogen
NTP: Not recognized as a carcinogen
OSHA: Not recognized as a carcinogen

OTHER INFORMATION

HMIS RATING: Health: 0
 Flammability: 1
 Reactivity: 0

NFPA RATING: Health: 0
 Flammability: 1
 Reactivity: 0

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 and use 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.

Disposal of containers must comply with applicable federal, state and local laws and regulations. Empty containers should never be given to individuals.