



ACME
HARDESTY
OLEOCHEMICALS

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Material Safety Data Sheet

PRODUCT NAME: METHYL 12-HYDROXY STEARATE

IDENTIFICATION AND DISTRIBUTOR INFORMATION

TRADE NAME: METHYL 12-HYDROXY STEARATE
CAS #: 141-23-1
EINECS#: 2054718
DATE: March 29, 2008

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 OF INGREDIENTS

	<u>ACGIH TLV</u>	<u>OSHA PEL</u>
Exposure limit for total product	Not established	Not established

HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

Off- white waxy flakes with a mild fatty acid odor.

CAUTION! MAY CAUSE EYE IRRITATION

EYES: Direct contact may cause eye irritation
SKIN: Prolonged or repeated contact may cause mild irritation.
INHALATION: Based on experience, no effects are expected. As good industrial hygiene practice, avoid breathing vapor from the heated product.
INGESTION: Not a probable route of entry into the body.

SUBCHRONIC EFFECTS (Target Organ Effects): No effects known
CHRONIC EFFECTS: No known effects

FIRST AID MEASURES

EYE CONTACT: In case of contact, immediately flush eyes with plenty of water. Call a physician if signs of irritation persist.
SKIN CONTACT: As good industrial hygiene practice, at the end of each work shift, wash skin with plenty of soap and water.
INHALATION: Remove to fresh air if effects occur from inhalation of vapors from the heated product.
INGESTION: Emergency care should not be needed.

FIRE FIGHTING MEASURES

FLASH POINT: 420°C (Cleveland Open cup)
UPPER FLAMMABLE LIMITS: Unknown
LOWER FLAMMABLE LIMITS: Unknown
AUTOIGNITION TEMP.: Unknown
FLAMMABILITY CLASS: Non-hazardous
FLAME PROPAGATION RATE: Not applicable
EXTINGUISHING MEDIA: Water fog, foam, carbon dioxide or dry chemical.
SPECIAL PRECAUTIONS: Toxic gases such as carbon monoxide may be released during fire. Use positive-pressure, self-contained breathing apparatus and full protective clothing.
FIRE / EXPLOSION HAZARDS: None known

ACCIDENTAL RELEASE MEASURES

In a clean area, recover for reuse. Dispose of contaminated material.

HANDLING AND STORAGE

Use adequate ventilation. Avoid contact with skin and eyes. Wash thoroughly after handling.

EXPOSURE CONTROLS/PERSONAL PROTECTION

EYES: Use safety glasses. An eye wash is recommended.
SKIN: As good industrial hygiene practice, impervious (for example, nitrile) gloves are recommended.
INHALATION: For normal operations, no respiratory protection is required. An air purifying respirator designed for organic vapors should provide adequate protection when handling the heated product.
ENGINEERING CONTROLS: For the product at ambient temperatures, use adequate ventilation. For the heated product, use exhaust ventilation to remove vapor.

PHYSICAL AND CHEMICAL PROPERTIES

pH: Not applicable
VAPOR DENSITY: Not applicable
VAPOR PRESSURE (mm Hg): <0.001 @ 20°C
BOILING POINT: Not applicable
MELTING POINT, °C: 50
SOLUBILITY IN WATER: <0.1% @ 25°C (77°F)
SPECIFIC GRAVITY (H₂O=1.00): 0.88@ 71°C/16°C
EVAPORATION RATE (BuAc=1): Approx. 0
% VOLATILE BY WEIGHT: 0
APPEARANCE & ODOR: Off-white waxy flakes with a mild fatty acid odor

STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable
CONDITIONS TO AVOID: This product is not reactive with water.
CHEMICALS TO AVOID: None known
HAZARDOUS POLYMERIZATION: Will not occur.
HAZARDOUS DECOMPOSITION: Thermal decomposition products can include toxic oxides of carbon.

TOXICOLOGICAL INFORMATION

The total product is not on the International Agency for Research on Cancer (IARC) or National Toxicology Program (NTP) or OSHA lists of carcinogens or potential carcinogens.

TOXICITY DATA: The following data on test animals indicate this product has low acute toxicity potential and is not a skin irritant by OSHA criteria

<u>ROUTE-SPECIES</u>	<u>TEST</u>	<u>DOSAGE</u>	<u>UNITS</u>	<u>IRRITATION DATA</u>
Oral – rat	LD50	>5	g/kg	Skin – rabbit Non-irritant Eye – rabbit Conjunctival irritant

OTHER: Subcutaneous injection of mice with methyl 12-hydroxy Stearate induced tumors, but only at the injection site. However, this is not applicable to workplace routes of exposure.

ECOLOGICAL INFORMATION

There is no data available.

DISPOSAL CONSIDERATIONS

Dispose of waste by landfill or incineration in accordance with all local, state and federal regulations.

RESOURCE CONSERVATION AND RECOVER ACT (RCRA): This product is not included in the lists of hazardous substances (40 CFR 261.33), nor does it exhibit the characteristics of hazardous waste (40 CFR 261.20-24).

TRANSPORT INFORMATION

DOT – DEPARTMENT OF TRANSPORTATION HAZARDOUS MATERIALS REGULATIONS:

DOT Hazard Class:	Not applicable
DOT Proper shipping Name:	Not applicable
Technical Name:	Not applicable
DOT Identification Number:	Not applicable
Surface Freight Classification:	Hydrogenated Castor Oil

REGULATORY INFORMATION

TOXIC SUBSTANCES CONTROL ACT (TSCA): This product is in the TSCA Inventory under CAS Number 141-23-1.

SARA, TITLE III, Section 313 (40 CFR 372): This product contains the following substances at a level, which is reportable under SARA Toxic Chemical Release Reporting Regulations:

<u>Chemical Name</u>	<u>CAS #</u>	<u>Wt%</u>
None		

SARA 311/312 Hazard Categories: This product has the following hazard categories: Immediate (Acute) Health.

NEW JERSEY WORKER AND COMMUNITY RIGHT TO KNOW ACT: This product contains the following top five ingredients:

<u>Chemical Name</u>	<u>CAS #</u>	<u>Wt%</u>
Octadecanoic acid, 12-hydroxy-methyl ester	141-23-1	100

REGULATORY INFORMATION, cont.

PENNSYLVANIA WORKER AND COMMUNITY RIGHT TO KNOW ACT: This product contains the following substances, which appear on the Hazardous Substance List at a level which requires notification under the Act:

<u>Chemical Name</u>	<u>CAS #</u>	<u>Wt%</u>
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None

WHMIS (Canada) Status: This is a controlled product under WHMIS: Class D, Division 2, Subdivision B.

Canadian Environmental Protection Act (CEPA) Status: This product is listed on the DSL.

INVENTORY REGISTRATION STATUS:

EINECS (EC):	YES
ELINCS (EC):	YES
MITI (Japan):	Not on MITI (On ENCS Japan Inventory
AICS (Australia):	Yes
KECI (Korea):	Yes
PICCS (Philippines):	Yes

OTHER INFORMATION

Hazard Ratings: NFPA 2 Health 1 Fire 0 Reactivity