



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#: 205-471-8
 DATE: September 3, 2013

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

TELEPHONE: (866) 226 – 3834
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 EMERGENCY: CHEMTREC (800) 424-9300

COMPOSITION/INFORMATION OF INGREDIENTS

CHEMICAL NAME	IDENTIFIER	CONCENTRATION
Methyl Ester of 12 Hydroxy Stearic Acid	CAS # 141-23-1 EC# 205-471-8	Main component is Methyl ester of 12-Hydroxy Stearic Acid, minimum 80%

CAS Number: 141-23-1
 EINECS Number: 205-471-8
 Molecular Formula: C₁₉H₃₈O₃
 Molecular Weight: 314.50

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

HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:

PRODUCT IDENTIFICATION:

Classification according to Regulation (EC)No.1272/2008[CLP/GHS]: Not Classified
 Classification according to Directive 67/548/EEC [DSD]: Not Classified

LABEL ELEMENTS:

Hazard pictograms: Not applicable
 Signal word: No Signal word
 Hazard statement: No known significant effects of critical hazards

PRECAUTIONARY STATEMENTS

Prevention: Not applicable
 Reponses: Not applicable
 Storage: Not applicable
 Disposal: Dispose of contents and container in accordance with all local, regional, national and international regulations.

FIRST AID MEASURES

EYE CONTACT: Immediately flush with lukewarm, gently flowing water for 5 minutes, or until chemical is removed.
Occasionally lift upper and lower Eyelids.
Obtain medical attention if irritation develops

INHALATION: If symptoms are experienced, remove affected person to fresh air and obtain medical advice

SKIN CONTACT: Quickly and gently, blot or brush away excess chemical.
Wash gently and thoroughly with water and non-abrasive soap for 5 minutes or until chemical is removed
Remove contaminated clothing and launder before reuse
If irritation persists, obtain medical advice

INGESTION: Rinse the mouth with water
If irritation or discomfort occurs, obtain medical advice

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

POTENTIAL ACUTE HEALTH EFFECTS

EYE CONTACTS:	Contact with eyes may cause slight eye irritation
INHALATION:	Single exposure to vapors or mists is not likely to be hazardous.
SKIN CONTACT:	Prolonged or repeated contact may cause irritation in some individuals
MEDICAL CONDITIONS	
AGGRAVATED BY EXPOSURE:	Not Available

FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

SUITABLE EXTINGUISHING MEDIA:	Use dry chemical, carbon dioxide, foam, water spray and sand.
UNSUITABLE EXTINGUISHING MEDIA:	Do not use direct water jets on the burning product; they could cause splattering and spread the fire. No other restrictions.
FLASH POINT:	> 170°C
FLAMMABLE CLASS:	Not Considered Flammable,
EXPLOSION HAZARDS:	None
FIRE FIGHTING PROCEDURES:	Treat as fat or oil fire. Do not use heavy stream of water. Fatty material will float and splatter surrounding area.
FLASH POINT:	Combustible liquid can form flammable mixtures at temperatures at or above the flash point.
HAZARDOUS DECOMPOSITION PRODUCTS:	Carbon Monoxide and Carbon Dioxide.

ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear adequate personal protective equipment as indicated in Exposure Controls/Personal Protection section.
Isolate spill area, preventing entry by unauthorized persons.

ENVIRONMENTAL PRECAUTIONS: Minimize entry of material into sewers and drainage systems.
Refer to permit discharge limitations if applicable.

METHODS FOR CONTAINMENT: Shut off spill if safe to do so.
Clean up spills immediately.

METHOD FOR CLEAN-UP: Vacuum, sweep or scoop material in to a chemical waste container.
Avoid raising dust.
Scrub area with detergent and water.

HANDLING AND STORAGE

GENERAL INFORMATION: Keep away from heat/sparks/open flames/hot surfaces.
Use and store outdoors or in a well-ventilated area.
Avoid temperature higher than 72°C

HANDLING PROCEDURE: Reasonable care and cleanliness require.

STORAGE CONDITIONS: Store in a clean, dry area to avoid possible contamination by other chemicals.
Store in ventilated area

EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS Limit values of inert dust: max 6mg/m³

EXPOSURE CONTROLS:

PERSONAL PROTECTION: Wear protective clothing such as gloves, aprons, boots and proper suits

RESPIRATORY EQUIPMENT: Respiratory protections are not required

EYE PROTECTION: Avoid eye contact as good industrial practice

OTHER: Ventilation rates should be matched to conditions

PHYSICAL AND CHEMICAL PROPERTIES

NOTE: Information on basic physical and chemical properties.

PHYSICAL STATE: Flakes
COLOR: Off-white
ODOR: Characteristic
ODOR THRESHOLD: Not applicable
pH: Not applicable
MELTING POINT: 72-78°C
BOILING POINT: >200°C
EVAPORATION RATE: Not available
VAPOR PRESSURE: Not available
VAPOR DENSITY: Not available
SOLUBILITY IN WATER: No
MOLECULAR WEIGHT: 314.50
VISCOSITY @ 25°C: 0.82 Poise

STABILITY AND REACTIVITY

CHEMICAL STABILITY: Normally Stable, Avoid temperature higher than 72°C

CONDITIONS TO AVOID: Keep away from contact with oxidizing agents.

CHEMICALS TO AVOID: Oxidizing agents

HAZARDOUS POLYMERIZATION REACTIONS: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and carbon dioxide.

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TOXICOLOGICAL INFORMATION

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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.

CARCINOGENICITY OF MATERIAL: Not Listed
REPRODUCTIVE EFFECTS: Not available
IRRITANCY OF MATERIAL: Not available
SENSITIZING OF CAPABILITY OF MATERIAL: Not available
SYNERGISTIC MATERIAL: Not available

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ECOLOGICAL INFORMATION

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TOXICITY:

ECOTOXICITY: Not available
MOBILITY: Not Determined
PERSISTENCE & DEGRADABILITY: Readily biodegradable.
BIOACCUMULATIVE POTENTIAL: Not available
ACUTE FISH TOXICITY: Not available
BACTERIA TOXICITY: Not available
OTHER ADVERSE EFFECTS: Not available

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DISPOSAL CONSIDERATIONS

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WASTE DISPOSAL: Do not dump in to any sewers, on the ground or into any body of water.
Store material for disposal as indicated in Handling and Storage section
Disposal in accordance with municipal, provincial and federal regulations
Dispose of waste by landfill or incineration in accordance with all local, state and federal regulations.

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TRANSPORT INFORMATION

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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

This product is not regulated for carriage according to TDG
Not classified as hazardous according to per 67/548/EEC ANNEX VI

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

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>
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 Health: 2 Fire: 1 Reactivity: 0

CLASSIFICATION: Not Classified.

According to EEC Council Directive, it is not a dangerous substance, but suitable precautions of handling chemicals should be taken. None of the components are listed.

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.