

Stearic acid, 90%

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision Date: 12/17/2013

Supersedes: 10/21/2013

Version: 1.0

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

1.1. Product Identifier

Product Form: Mixtures

Product Name: Stearic acid, 90%

CAS No: 57-11-4, 57-10-3

Synonyms: Octadecanoic acid

1.2. Intended Use of the Product

Use of the substance/mixture: Per FDA 21CFR - Coatings on fresh citrus fruit, chewing gum base, fatty acids, defoaming agents, adhesives, resinous and polymeric coatings, stearic acid

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)

Not classified

2.2. Label Elements

GHS-US Labeling

Not applicable

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. Substances

Not applicable

3.2. Mixtures

Name	Product Identifier	%	Classification (GHS-US)
Stearic acid	(CAS No) 57-11-4	> 90	Not classified
Hexadecanoic acid	(CAS No) 57-10-3	< 10	Not classified

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. Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell.

First-aid Measures After Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

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First-aid Measures After Eye Contact: Rinse cautiously with water for several 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: None expected under normal conditions of use.

Symptoms/Injuries After Skin Contact: Contact during a long period may cause light irritation.

Symptoms/Injuries After Eye Contact: May cause slight irritation to eyes.

Symptoms/Injuries After Ingestion: May cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

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: Use extinguishing media appropriate for surrounding fire. Alcohol foam, carbon dioxide, dry chemical, sand.

Unsuitable Extinguishing Media: Do not use water jet.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but will burn at high temperatures.

Explosion Hazard: Product is not explosive.

Reactivity: No reactivity hazard other than the effects described in sub-sections below.

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: Handle in accordance with good industrial hygiene and safety practice.

6.1.1. For Non-emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel. Evacuate unnecessary personnel.

6.1.2. For Emergency Responders

Protective Equipment: Equip cleanup crew with proper protection. Use appropriate personal protection equipment (PPE).

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

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

Precautions for Safe Handling: Avoid breathing dust. Use only outdoors or in a well-ventilated area. Handle in accordance with good industrial hygiene and safety procedures. Wear recommended personal protective equipment.

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

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

Incompatible Products: Strong oxidizers.

7.3. Specific End Use(s) Per FDA 21CFR - Coatings on fresh citrus fruit, chewing gum base, fatty acids, defoaming agents, adhesives, resinous and polymeric coatings, stearic acid

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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

: Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal Protective Equipment

: Gloves. Insufficient ventilation: wear respiratory protection. Protective goggles.



Hand Protection

: Wear chemically resistant protective gloves.

Eye Protection

: Chemical goggles or safety glasses.

Skin and Body Protection

: Wear suitable protective clothing.

Respiratory Protection

: 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	: White. Flakes, beads or in bulk, liquid.
Odor	: Slight.
Odor Threshold	: No data available
pH	: Not applicable
Relative Evaporation Rate (butylacetate=1)	: No data available
Melting Point	: 64.9 - 69.3 °C (127.4-145.4°F)
Freezing Point	: No data available
Boiling Point	: 383 - 385.8 °C (721.4-726.4°F) DIN 51751
Flash Point	: 200 °C (392°F) ASTM D92
Auto-ignition Temperature	: No data available
Decomposition Temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor Pressure	: 8.54E-8 hPa @25°C
Relative Vapor Density at 20 °C	: No data available
Relative Density	: 0.84-0.90 @ 20°C
Specific Gravity	: 0.87 g/cm ³ @20°C
Solubility	: Water: 5E-5 g/L @ 20°C
Log Pow	: No data available
Log Kow	: No data available
Viscosity, Kinematic	: 12 mm ² /s @70°C (ASTM D445)
Viscosity, Dynamic	: 9.87 mPa.s
Explosive Properties	: No data available
Oxidizing Properties	: No data available
Explosive Limits	: Not applicable

9.2. Other Information

No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity: No reactivity hazard other than the effects described in sub-sections below.

10.2 Chemical Stability: Stable under normal temperature and pressure.

10.3 Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

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10.4 Conditions to Avoid: Direct sunlight. Avoid high temperatures.

10.5 Incompatible Materials: Strong oxidizers.

10.6 Hazardous Decomposition Products: Carbon oxides (CO, CO₂).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information On Toxicological Effects

Acute Toxicity : Not classified

Hexadecanoic acid (57-10-3)

LD50 Dermal Rabbit	> 2000 mg/kg
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Skin Corrosion/Irritation: Not classified pH: Not applicable

Serious Eye Damage/Irritation: Not classified pH: Not applicable

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: None expected under normal conditions of use.

Symptoms/Injuries After Skin Contact: Contact during a long period may cause light irritation.

Symptoms/Injuries After Eye Contact: May cause slight irritation to eyes.

Symptoms/Injuries After Ingestion: May cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Hexadecanoic acid (57-10-3)

LC50 Fish 1	150 mg/l (Exposure time: 96 h - Species: <i>Oryzias latipes</i>)
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12.2. Persistence and Degradability

Stearic acid, 90% (57-11-4, 57-10-3)

Persistence and Degradability	Easily biodegradable.
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12.3. Bioaccumulative Potential

Stearic acid, 90% (57-11-4, 57-10-3)

Bioconcentration factor (BCF REACH)	225 L/kg.
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Bioaccumulative Potential	Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.
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12.4. Mobility in Soil

Hexadecanoic acid (57-10-3)

Log Koc	13.23
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Stearic acid (57-11-4)

Log Koc	51.05
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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.

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SECTION 14: TRANSPORT INFORMATION

In Accordance With ICAO/IATA/DOT/TDG

14.1. UN Number Not applicable

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

Hexadecanoic acid (57-10-3)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Stearic acid (57-11-4)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2 US State Regulations

Hexadecanoic acid (57-10-3)
U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term

Stearic acid (57-11-4)
U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term

SECTION 16: OTHER INFORMATION

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:

Acute Tox. Not classified (Dermal)	Acute toxicity (dermal) Not classified
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