



Stearic Acid 55% FGK

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Revision Date: 03/11/2016 Date of Issue: 03/11/2016

Version: 1.0

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

1.1. Product Identifier

Product Form: Mixture

Product Name: Stearic Acid 55% FGK

CAS No: 67701-03-5, 57-11-4, 57-10-3, 544-63-8, 506-30-9

Synonyms: Fatty Acid C14-C18

1.2. Intended Use of the Product

Use of the substance/mixture: Intermediate

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

GHS-US classification

Not classified

2.2. Label Elements

GHS-US Labeling

No labeling 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. Substance

Not applicable

3.2. Mixture

Name	Product Identifier	%	GHS-US classification
Stearic acid	(CAS No) 57-11-4	52 - 58	Comb. Dust, H232
Hexadecanoic acid	(CAS No) 57-10-3	41 - 47	Comb. Dust, H232
Tetradecanoic acid	(CAS No) 544-63-8	< 2.5	Comb. Dust, H232 Eye Irrit. 2A, H319
Eicosanoic acid	(CAS No) 506-30-9	< 1	Skin Irrit. 2, H315 Eye Irrit. 2A, H319

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.

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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.

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 slight 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

For Containment: Contain and collect as any solid.

Methods for Cleaning Up: Collect spillage. Clean 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: 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. Wash hands and forearms thoroughly after handling.

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.

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7.3. Specific End Use(s)

per FDA 21CFR: Coatings on fresh citrus fruit, chewing gum base, defoaming agents, adhesives, resinous & polymeric coatings.
Intermediate

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

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. Solid below melt point; liquid above melt point.
Odor	: Mild fatty
Odor Threshold	: No data available
pH	: Not measurable
Relative Evaporation Rate (butylacetate=1)	: No data available
Melting Point	: 55.5 - 57.5°C
Freezing Point	: No data available
Boiling Point	: > 200°C (392°F)
Flash Point	: ~180°C (356°F)
Auto-ignition Temperature	: ~350°C (662°F)
Decomposition Temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor Pressure	: <0.01 hPa @ 20°C
Relative Vapor Density at 20 °C	: No data available
Relative Density	: ca. 0.84-0390 g/cm ³
Specific Gravity	: Not available
Solubility	: Water: Insoluble
Partition Coefficient: N-Octanol/Water	: ca. 7.05-8.23 log Pow
Viscosity	: (Kinematic @ 70°C) ca. 12 mm ² /s (ASTM D445)
Explosive Properties	: No data available
Oxidizing Properties	: No data available
Explosive Limits	: Not applicable

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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.
- 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

Stearic Acid 55% FGK (67701-03-5, 57-11-4, 57-10-3, 544-63-8, 506-30-9)

Stearic acid (57-11-4)

LD50 Oral Rat > 5000 mg/kg

LD50 Dermal Rat > 2000 mg/kg

Hexadecanoic acid (57-10-3)

LD50 Oral Rat > 10 g/kg

LD50 Dermal Rabbit > 2000 mg/kg

LC50 Inhalation Rat (mg/l) 0.1621 mg/l/4h

ATE (Vapors) 0.162 mg/l/4h

Tetradecanoic acid (544-63-8)

LD50 Oral Rat > 10 g/kg

Skin Corrosion/Irritation: Not classified

pH: Not measurable

Serious Eye Damage/Irritation: Not classified

pH: Not measurable

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Carcinogenicity: Not classified

Stearic Acid 55% FGK (67701-03-5, 57-11-4, 57-10-3, 544-63-8, 506-30-9)

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Stearic Acid 55% FGK (67701-03-5, 57-11-4, 57-10-3, 544-63-8, 506-30-9)

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 slight 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: Oryzias latipes)

Tetradecanoic acid (544-63-8)

LC50 Fish 1 118 mg/l (Exposure time: 96 h - Species: Oryzias latipes [static])

12.2. Persistence and Degradability

Stearic Acid 55% FGK (67701-03-5, 57-11-4, 57-10-3, 544-63-8, 506-30-9)

Persistence and Degradability Easily biodegradable.

12.3. Bioaccumulative Potential

Stearic Acid 55% FGK (67701-03-5, 57-11-4, 57-10-3, 544-63-8, 506-30-9)

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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Tetradecanoic acid (544-63-8)	
Log Pow	5.9

12.4. Mobility in Soil

Stearic acid (57-11-4)	
Log Koc	51.05
Hexadecanoic acid (57-10-3)	
Log Koc	13.23

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

Stearic acid (57-11-4)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Hexadecanoic acid (57-10-3)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Tetradecanoic acid (544-63-8)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Eicosanoic acid (506-30-9)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

15.2 US State Regulations Neither this product nor its chemical components appear on any US state lists.

SECTION 16: OTHER INFORMATION

Revision Date : 03/11/2016
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
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Skin Irrit. 2	Skin corrosion/irritation Category 2
H232	May form combustible dust concentrations in air
H315	Causes skin irritation
H319	Causes serious eye irritation

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