



ACME-HARDESTY  
A division of  
JACOB STERN & SONS, INC.  
- SINCE 1857 -

# Oleic Acid 105

## Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations  
Revision Date: 05/29/2015 Date of Issue: 02/10/2011

Version: 2.0

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

### 1.1. Product Identifier

**Product Form:** Substance

**Product Name:** Oleic Acid 105

**CAS No:** 112-80-1

**Synonyms:** Saturated and unsaturated straight chain aliphatic monocarboxylic acids, mainly Oleic Acid

### 1.2. Intended Use of the Product

**Use of the substance/mixture:** Per FDA 21CFR – General provisions applicable to indirect food additives; Adhesives; Resinous and polymeric coatings for polyolefin films; Components of paper and paperboard in contact with aqueous and fatty foods; Components of paper and paperboard in contact with dry food; Defoaming agents used in coatings; Defoaming agents used in the manufacture of paper and paperboard; Acrylic and modified acrylic plastics, semirigid and rigid; Cellophane, Hydroxyethyl cellulose film, water-insoluble; Filters, resin-bonded; Rubber articles intended for repeated use; Textiles and textile fibers; Lubricants with incidental food contact; Surface lubricants used in the manufacture of metallic articles.

### 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

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

Name : Oleic Acid 105

CAS No : 112-80-1

Name	Product Identifier	%	Classification (GHS-US)
Oleic acid	(CAS No) 112-80-1	60 - 100	Not classified

#### Typical Composition:

C14 2% (CAS No. 544-63-8) Not classified

C16 4% (CAS No. 57-10-3) Not classified

C16:I 5% (CAS No. 25447-95-4) Not classified

C18 1% (CAS No. 57-11-4) Not classified

C18:II 13% (CAS No. 60-33-3) Not classified

C18:III 3% (CAS No. 463-40-1) Not classified

### 3.2. Mixture

Not applicable

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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.

**First-aid Measures After Skin Contact:** Remove contaminated clothing. Drench affected area with water for at least 15 minutes.

**First-aid Measures After Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

**First-aid Measures After Ingestion:** Rinse mouth. Do NOT induce vomiting.

#### 4.2. Most Important Symptoms and Effects, Both Acute and Delayed

**Symptoms/Injuries:** Not expected to present a significant hazard under anticipated conditions of normal use.

**Symptoms/Injuries After Inhalation:** Not expected to present a significant inhalation hazard under anticipated conditions of normal use.

**Symptoms/Injuries After Skin Contact:** Not irritating to skin.

**Symptoms/Injuries After Eye Contact:** Dust from this product may cause minor eye irritation.

**Symptoms/Injuries After Ingestion:** May cause nausea, vomiting, and diarrhea.

#### 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:** Carbon dioxide, dry chemical, foam, water spray, fog. Use extinguishing media appropriate for surrounding fire.

**Unsuitable Extinguishing Media:** Do not use water jet. Use of heavy stream of water may spread fire.

#### 5.2. Special Hazards Arising From the Substance or Mixture

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

**Explosion Hazard:** Product is not explosive.

**Reactivity:** Stable at ambient temperature and under normal conditions of use.

#### 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.

##### 6.1.2. For Emergency Responders

**Protective Equipment:** Equip cleanup crew with proper protection.

**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:** Absorb and/or contain spill with inert material, then place in suitable container.

**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

**Additional Hazards When Processed:** Practice good housekeeping - spillage can be slippery on smooth surface either wet or dry.

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**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. Do not eat, drink or smoke when using this product.

### 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.

**Incompatible Products:** Strong oxidizers.

**Storage Temperature:** In bulk, store at about 5-10°C above melting point or at ambient temperature.

**Storage Area:** Temperature higher than necessary degrades quality at rates dependent on time and temperature of exposure.

**Special Rules on Packaging:** Stainless steel preferred for storage.

### 7.3. Specific End Use(s)

Per FDA 21CFR – General provisions applicable to indirect food additives; Adhesives; Resinous and polymeric coatings for polyolefin films; Components of paper and paperboard in contact with aqueous and fatty foods; Components of paper and paperboard in contact with dry food; Defoaming agents used in coatings; Defoaming agents used in the manufacture of paper and paperboard; Acrylic and modified acrylic plastics, semirigid and rigid; Cellophane, Hydroxyethyl cellulose film, water-insoluble; Filters, resin-bonded; Rubber articles intended for repeated use; Textiles and textile fibers; Lubricants with incidental food contact; Surface lubricants used in the manufacture of metallic articles.

## 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), NIOSH (REL), or OSHA (PEL).

### 8.2. Exposure Controls

**Appropriate Engineering Controls** : Ensure all national/local regulations are observed.

**Personal Protective Equipment** : Safety glasses. Gloves.



**Hand Protection** : Rubber gloves.

**Eye Protection** : Chemical goggles or safety glasses.

**Respiratory Protection** : If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.

**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

<b>Physical State</b>	: Liquid
<b>Appearance</b>	: Pale yellow. Liquid at 20°C
<b>Odor</b>	: Faint
<b>Odor Threshold</b>	: No data available
<b>pH</b>	: No data available
<b>Relative Evaporation Rate (butylacetate=1)</b>	: No data available
<b>Melting Point</b>	: Cloud point ≤10°C (50°F)
<b>Freezing Point</b>	: No data available
<b>Boiling Point</b>	: 220 °C @ 10hPa (428 °F)
<b>Flash Point</b>	: 180 °C Open Cup (356 °F)
<b>Auto-ignition Temperature</b>	: 350 °C (662 °F)
<b>Decomposition Temperature</b>	: No data available
<b>Flammability (solid, gas)</b>	: No data available
<b>Vapor Pressure</b>	: 0.000106 hPa @20°C
<b>Relative Vapor Density at 20 °C</b>	: No data available
<b>Relative Density</b>	: No data available
<b>Specific Gravity</b>	: ≈ 0.9 @20°C

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<b>Solubility</b>	: Water: Insoluble Organic solvent: Soluble
<b>Partition Coefficient: N-Octanol/Water</b>	: 3 (estimated)
<b>Viscosity</b>	: 25 mPa.s @25°C
<b>Explosive Properties</b>	: No data available
<b>Oxidizing Properties</b>	: No data available
<b>Explosive Limits</b>	: Not applicable

**9.2. Other Information** No additional information available

## SECTION 10: STABILITY AND REACTIVITY

- 10.1 Reactivity:** Stable at ambient temperature and under normal conditions of use.  
**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:** Avoid ignition sources. Direct sunlight. Extremely high or low temperatures.  
**10.5 Incompatible Materials:** Strong oxidizers.  
**10.6 Hazardous Decomposition Products:** Carbon oxides (CO, CO<sub>2</sub>).

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information On Toxicological Effects

**Acute Toxicity** : Not classified

**Oleic Acid 105 (\f)112-80-1**

**Oleic acid (112-80-1)**

<b>LD50 Oral Rat</b>	25 g/kg
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**Skin Corrosion/Irritation:** Not classified

**Serious Eye Damage/Irritation:** Not classified

**Respiratory or Skin Sensitization:** Not classified

**Germ Cell Mutagenicity:** Not classified

**Carcinogenicity:** Not classified

**Oleic Acid 105 (112-80-1)**

**Reproductive Toxicity:** Not classified

**Specific Target Organ Toxicity (Single Exposure):** Not classified

**Oleic Acid 105 (112-80-1)**

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified

**Aspiration Hazard:** Not classified

**Symptoms/Injuries After Inhalation:** Not expected to present a significant inhalation hazard under anticipated conditions of normal use.

**Symptoms/Injuries After Skin Contact:** Not irritating to skin.

**Symptoms/Injuries After Eye Contact:** Dust from this product may cause minor eye irritation.

**Symptoms/Injuries After Ingestion:** May cause nausea, vomiting, and diarrhea.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

**Oleic acid (112-80-1)**

<b>LC50 Fish 1</b>	205 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
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### 12.2. Persistence and Degradability

**Oleic Acid 105 (112-80-1)**

<b>Persistence and Degradability</b>	Readily biodegradable in water.
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### 12.3. Bioaccumulative Potential

**Oleic Acid 105 (112-80-1)**

<b>Bioaccumulative Potential</b>	Not established.
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**12.4. Mobility in Soil** No additional information available

### 12.5. Other Adverse Effects

**Other Information** : Avoid release to the environment.

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### 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

##### Oleic acid (112-80-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 15.2 US State Regulations

##### Oleic Acid 105(112-80-1)

###### State or local regulations

The product and/or its components does not appear on any state Right to Know lists.

##### Oleic acid (112-80-1)

U.S. - Pennsylvania - RTK (Right to Know) List

### SECTION 16: OTHER INFORMATION

**Revision Date** : 05/29/2015

**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:

*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, use and disposal 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 or container.*

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