



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

Jenkinol 680

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Revision Date: 05/22/2015 Date of Issue: 08/15/2012

Version: 2.0

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

1.1. Product Identifier

Product Form: Substance

Product Name: Jenkinol 680

CAS No: 8013-07-8

Synonyms: Epoxidized Soybean Oil

1.2. Intended Use of the Product

Use of the substance/mixture: Per FDA 21 CFR – Adhesives, Resinous and polymeric coatings (§ Sec. 175.300), Closures with sealing gaskets for food containers (Modified with Trimellitic anhydride), Polysulfide polymer-polyepoxy resins, Surface lubricants used in the manufacture of metallic articles, conforming to the identity prescribed in § Sec. 181.27, Plasticizers - Substances classified as plasticizers where the iodine number is a maximum of 6 %; and oxirane oxygen, is a minimum of 6.0 percent (§ Sec. 181.27). Use is permitted by the following cross-references - Zinc-silicon dioxide matrix coatings - § Sec. 175.300 (b)(2); 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 - § Sec. 175.300 and § Sec 181.27

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 : Jenkinol 680

CAS No : 8013-07-8

Name	Product Identifier	%	Classification (GHS-US)
Epoxidized soybean oil	(CAS No) 8013-07-8	100	Not classified

3.2. Mixture

Not applicable

Full text of H-phrases: see section 16

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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.

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

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

Symptoms/Injuries: Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.

Symptoms/Injuries After Inhalation: Inhalation of vapors may cause respiratory irritation.

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

Symptoms/Injuries After Eye Contact: Direct contact with the eyes is likely irritating.

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

Chronic Symptoms: None known.

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. Carbon dioxide, dry chemical, foam, water spray, fog.

Unsuitable Extinguishing Media: Do not use water.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: May be combustible at high temperature.

Explosion Hazard: Product is not explosive.

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

5.3. Advice for Firefighters

Precautionary Measures Fire: Do not breathe fumes from fires or vapors from decomposition.

Firefighting Instructions: Exercise caution when fighting any chemical fire.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Other Information: Decomposes to produce corrosive fumes of Acrolein.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not allow product to spread into the environment. Can be slippery on hard, smooth walking area.

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. Avoid release to the environment.

6.3. Methods and Material for Containment and Cleaning Up

For Containment: Absorbent should be sprayed with water in order to prevent self ignition. WARNING: hot product adsorbed on porous material can burn spontaneously. Do not take up in combustible material such as: saw dust or cellulosic material.

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.

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SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

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.

Storage Temperature: < 204 °C

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

7.3. Specific End Use(s)

Per FDA 21 CFR – Adhesives, Resinous and polymeric coatings (§ Sec. 175.300), Closures with sealing gaskets for food containers (Modified with Trimellitic anhydride), Polysulfide polymer-polyepoxy resins, Surface lubricants used in the manufacture of metallic articles, conforming to the identity prescribed in § Sec. 181.27, Plasticizers - Substances classified as plasticizers where the iodine number is a maximum of 6 %; and oxirane oxygen, is a minimum of 6.0 percent (§ Sec. 181.27). Use is permitted by the following cross-references - Zinc-silicon dioxide matrix coatings - § Sec. 175.300 (b)(2); 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 - § Sec. 175.300 and § Sec 181.27

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

: Gloves. Protective goggles. Mist formation: aerosol mask.



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

Physical State	: Liquid
Appearance	: Yellow. Viscous
Odor	: Mild
Odor Threshold	: No data available
pH	: No data available
Relative Evaporation Rate (butylacetate=1)	: No data available
Melting Point	: 0 °C (32 °F)
Freezing Point	: No data available
Boiling Point	: Decomposes on heating
Flash Point	: 310 °C (Method: Standard ASTM D92) (590 °F)
Auto-ignition Temperature	: No data available
Decomposition Temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor Pressure	: No data available
Relative Vapor Density at 20 °C	: No data available
Relative Density	: No data available
Specific Gravity	: 0.994 g/cm ³ @25°C

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Solubility	: Water: 0.01 % Insoluble Organic solvent: Soluble in most organic solvents at room temperature
Partition Coefficient: N-Octanol/Water	: > 6.2 log Pow (OECD Guideline 117)
Viscosity	: 3.2 - 5 cSt Stokes @25°C
Explosive Properties	: No data available
Oxidizing Properties	: No data available
Explosive Limits	: Not applicable

9.2. Other Information

VOC content : 0.07 %

SECTION 10: STABILITY AND REACTIVITY

- 10.1 Reactivity:** Stable at ambient temperature and under normal conditions of use.
- 10.2 Chemical Stability:** Stable at standard temperature and pressure.
- 10.3 Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.
- 10.4 Conditions to Avoid:** Avoid ignition sources.
- 10.5 Incompatible Materials:** Strong acids.
- 10.6 Hazardous Decomposition Products:** Carbon oxides (CO, CO₂). Decomposes to produce corrosive fumes of Acrolein.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information On Toxicological Effects

Acute Toxicity : Not classified

Jenkinol 680 (\f)8013-07-8	
LD50 Oral Rat	5000 mg/kg
LD50 Dermal Rat	> 19500 mg/kg
LC50 Inhalation Rat (mg/l)	No deaths occurred. (rat) 8 h Exposure time (concentrated vapor)
ATE (Oral)	5000.000 mg/kg body weight
Epoxidized soybean oil (8013-07-8)	
LD50 Oral Rat	40 g/kg
LD50 Dermal Rabbit	> 20 ml/kg
ATE (Oral)	21000.000 mg/kg

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

Jenkinol 680 (8013-07-8)

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Jenkinol 680 (8013-07-8)

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Inhalation of vapors may cause respiratory irritation.

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

Symptoms/Injuries After Eye Contact: Direct contact with the eyes is likely irritating.

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

Chronic Symptoms: None known.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Jenkinol 680 (8013-07-8)	
LC50 Fish 1	Fish LC50 > limit of water solubility
EC50 Daphnia 1	Daphnia magna (Water flea) EC50 > limit of water solubility
EC50 Other Aquatic Organisms 1	Algae EC50 > limit of water solubility

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12.2. Persistence and Degradability

Jenkinol 680 (8013-07-8)	
Persistence and Degradability	Readily biodegradable in water.
Chemical Oxygen Demand (COD)	2240 mg/g

12.3. Bioaccumulative Potential

Jenkinol 680 (8013-07-8)	
Bioaccumulative Potential	Not established.

12.4. Mobility in Soil No additional information available

12.5. Other Adverse Effects

No additional information available

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

Epoxidized soybean oil (8013-07-8)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

15.2 US State Regulations

Jenkinol 680(8013-07-8)	
State or local regulations	The product and/or its components does not appear on any state Right to Know lists.

SECTION 16: OTHER INFORMATION

Revision Date : 05/22/2015

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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