

## 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

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

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|   |  |
|---|--|
| <b>Solubility</b>                             | : Water: 0.01 % Insoluble<br>Organic solvent: Soluble in most organic solvents at room temperature |
| <b>Partition Coefficient: N-Octanol/Water</b> | : > 6.2 log Pow (OECD Guideline 117)   |
| <b>Viscosity</b>                              | : 3.2 - 5 cSt Stokes @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

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, CO<sub>2</sub>). 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 in this Safety Data Sheet relates to the specific material designated and does not relate to its use in combination with any other material or process. The data contained is believed to be correct. However, since conditions of use are outside our control it should not be taken as warranty or representation for which Chemical Distribution Solutions assumes legal responsibility. This information is provided solely for your consideration, investigation, and verification.