This Material Safety Data Sheet packet contains the MSDS for the products listed below:

BOSS® 294 Clear Epoxy – Resin (Part A)
BOSS® 294 Clear Epoxy – Hardener (Part B)

Please confirm that you have the proper MSDS for the product being used.
MSDS Document

Product  BOSS® 294 Clear Epoxy - Resin (Part A)

1. Chemical Product and Company Identification

Product  BOSS® 294 Clear Epoxy - Resin (Part A)

MSDS ID  BOSS294A
Manufacturer
Accumetric, LLC
350 Ring Road
Elizabethtown, KY 42701

Phone Number
(270) 769-3385

Emergency Phone
CHEMTREC (800) 424-9300
CHEMTREC International (703) 527-3887

Revision Date  4/15/2014

2. Composition and Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS Number</th>
<th>Weight %</th>
<th>ACGIH TLV</th>
<th>PEL</th>
<th>STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bisphenol A / Epichlorohydrin Resin</td>
<td>25068-38-6</td>
<td>60% - 100%</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3. Hazard Identification

Primary Route of Entry
Skin contact

Medical Conditions Aggravated by Exposure
Allergy, eczema or skin conditions

Overexposure Effects
Can cause skin irritation, eye irritation and allergic skin reaction.
4. First Aid Information

**Eye Contact**
Immediately flush with water for 15 minutes. Seek medical attention.

**Skin Contact**
Immediately wash with soap and water. Remove contaminated clothing and launder before re-use. Destroy contaminated shoes. Seek immediate medical attention.

**Inhalation**
Remove to fresh air. Get immediate medical attention.

**Ingestion**
Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

**Additional Information**
Promptly remove wet contaminated, non-impervious clothing. Wash before re-use.

5. Fire Fighting Measures

**Flash Point** 490°F  254°C

**FP Method** Closed Cup

**Flammability Limits**
LFL: Not determined
UFL: Not determined

**Extinguishing Media**
Carbon Dioxide, Dry Chemical, Foam, Water Spray

**Fire Fighting Equipment**
Use self-contained breathing apparatus.

**Fire and Explosion Hazards**
Decomposition and combustion products may be toxic.

6. Accidental Release Measures

**Accidental Release Measures**
Avoid all personal contact. Take up with absorbent material. Shovel into closable containers. Flush contaminated area with water.

7. Handling and Storage

**Handling**
Can cause skin irritation, eye irritation and allergic skin reaction. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
Storage
Store in cool, dry area in sealed containers. Keep containers closed to prevent moisture absorption and contamination.

8. Exposure Controls and Personal Protection

Personal Protective Equipment
Wear appropriate equipment to prevent eye or skin contact. Use of barrier cream is recommended.

Respiratory Protection
Organic chemical cartridge respirator, if needed.

Skin Protection
Impervious gloves are suggested.

Eye Contact
Chemical splash goggles or safety glasses with side shields.

Engineering Controls
Good general mechanical ventilation and local exhaust.

9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
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<td>Specific Gravity</td>
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<td>Color/Appearance</td>
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<td>Odor</td>
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<tr>
<td>pH</td>
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<tr>
<td>Boiling/Cond. Point</td>
<td>&gt; 200°C 392°C</td>
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<tr>
<td>Melting/Freezing Point</td>
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<tr>
<td>Solubility</td>
<td>Insoluble in water</td>
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<tr>
<td>Evaporation Rate</td>
<td>Not determined</td>
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<tr>
<td>Percent Volatile</td>
<td>Not determined</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not determined</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>~ 1mm Hg @ 180°C</td>
</tr>
</tbody>
</table>

Note
The above information is not intended for use in preparing product specifications. Contact Accumetric LLC before writing specifications.

10. Stability and Reactivity

Conditions to Avoid
Avoid strong acids and bases in bulk and elevated temperatures.

Incompatibilities
This product is incompatible with strong oxidizing agents.

Hazardous Decomposition Products
Carbon monoxide, carbon dioxide, aldehydes
11. Toxicological Information

**Acute Oral Effects (LD50)**
(Rat) >5000 mg/kg

**Acute Dermal Toxicity (LD50)**
(Rabbit) > 6000 mg/kg

**Sensitization**
Moderate sensitizer

**Carcinogenicity**
Based on several dermal studies in mice, IARC had concluded in 1999 that diglycidyl ether of bisphenol A is not classifiable as a human carcinogen (Group 3) and has limited evidence of carcinogenicity in animals.

**Skin Irritation**
(Rabbit) Moderate irritation

**Eye Irritation**
(Rabbit) Slight irritation

**Reproduction**
For diglycidyl ether of bisphenol A - There were no treatment-related histologic changes noted nor effects on reproductive performance in rats at any oral dose tested.

**Teragenicity**
For diglycidyl ether of bisphenol A - No adverse effects on embryonic or fetal development was observed in rabbits after dermal exposure.

**Mutagenicity**
For diglycidyl ether of bisphenol A - In vitro tests showed mutagenic effects which were not observed with in vivo tests.

**Sub-Chronic**
Diglycidyl ether of bisphenol A, applied to the skin of rats five times per week for approximately 13 weeks, caused no apparent systemic toxicity with the exception of decreased body weight and body weight gain.

12. Ecological Information

**Biodegradability**
(Modified Strum method): ~12%
Fish Toxicity
Rainbow Trout (96 hr): LC50 1.5 mg/L
Zebra Fish (96 hr): LC50 2.4 mg/L

Invertebrate Toxicity
Daphnia Toxicity (24 hr): EC50 3.6 mg/L

13. Disposal Considerations
We make no guarantee or warranty of any kind that the use or disposal of this product complies with all local, state, or federal laws. It is also the obligation of each user of the product mentioned herein to determine and comply with the requirements of all applicable statutes.

14. Transportation Information

DOT: Non-Bulk
Not regulated when shipped in non-bulk packaging.

IATA: Non-Bulk
Not regulated when shipped in non-bulk packaging.

IMDG: Non-Bulk
Not regulated when shipped in non-bulk packaging.

TDG: Non-Bulk
Not regulated when shipped in non-bulk packaging.

15. Regulatory Information

Occupational Safety and Health Act (OSHA)
This Material Safety Data Sheet (MSDS) has been prepared in compliance with the federal OSHA Hazard Communication Standard 29 CFR 1910.1200. This product is considered to be a hazardous chemical under that standard.

Resource Conservation and Recovery Act (RCRA)
Not a hazardous waste under RCRA (40 CFR 261).

SARA Title III: Section 313 Toxic Chemical List (TCL)
This product does not contain any chemicals for routine annual toxic chemical release reporting under Section 313 (40 CFR 372).

TSCA Section 8(b) - Inventory Status
All chemical components of this product are in compliance with TSCA inventory requirements.

TSCA Section 12(b) - Export Notification
This product does not contain any chemical(s) that are subject to a Section 12(b) export notification.
Canadian Inventory Status
This product contains only chemicals that are currently listed on the Canadian Domestic Substance List.

Canadian WHMIS
This product had been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations. D2B

California Proposition 65
This product does not contain any chemicals currently on the California list of Known Carcinogens and Reproductive Toxins.

New Jersey Right-to-Know
The following is required composition information:

Chemical Name: Phenol, 4,4’-(1-methylethylidene)bis-,polymer with (chloromethyl)oxirane
Common Name: Bisphenol A Diglycidyl Ether Polymer
CAS Number: 25068-38-6

Pennsylvania Right-to-Know
The following is required composition information:

Chemical Name: Phenol, 4,4’-(1-methylethylidene)bis-,polymer with (chloromethyl)oxirane
Common Name: Bisphenol A Diglycidyl Ether Polymer
CAS Number: 25068-38-6
Comment: Not on Pennsylvania Hazardous Substance List

16. Other Information

Disclaimer
The data contained herein is based upon information that Accumetric LLC believes to be reliable. Users of this product have the responsibility to determine that suitability of use and to adopt all necessary precautions to ensure the safety and protection of property and persons involved in said use. All statements or suggestions are made without warranty, expressed or implied, regarding the accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof.
1. Chemical Product and Company Identification

Product  BOSS® 294 Clear Eopxy - Hardener (Part B)

MSDS ID  BOSS294B
Manufacturer
Accumetric, LLC
350 Ring Road
Elizabethtown, KY 42701

Phone Number
(270) 769-3385

Emergency Phone
CHEMTREC (800) 424-9300
CHEMTREC International (703) 527-3887

Revision Date  4/15/2014

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<th>PEL</th>
<th>STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>This product does not contain any hazardous chemicals as defined by the OSHA Haz</td>
<td>Trade Secret</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3. Hazard Identification

Emergency Overview
May cause skin and/or eye irritation on prolonged or repeated exposure. This product does not contain any components which may contribute to significant, immediate health, physical, or environmental hazards.

Primary Routes of Entry
Ingestion, inhalation, skin contact
Subchronic (Target Organs) Effects
None known

Irritancy
Skin, Eyes

Sensitizing Capability
None known

Reproductive Effects
None known

Cancer Information
None known

Summary of Acute Hazards
INHALATION: May be harmful if inhaled in large amounts or for prolonged periods.
EYES: May cause eye irritation on prolonged or repeated exposure.
SKIN: May cause skin irritation on prolonged or repeated exposure.
INGESTION: May be harmful if swallowed.

Summary of Chronic Hazards
None known.

Synergistic Materials
None known

Medical Conditions Aggravated by Exposure
None known

4. First Aid Information

Eyes
IMMEDIATELY flush eyes with a directed stream of water for at least 15 minutes, forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissue. IF IRRITATION PERSISTS GET MEDICAL ATTENTION.

Skin
Wash thoroughly with soap and water. Wash clothing before reuse. IF IRRITATION OCCURS, GET MEDICAL ATTENTION.

Inhalation
Remove to fresh air. If breathing is difficult, have trained person administer oxygen. If respiration stops, have a trained person administer artificial respiration. IF THERE ARE ADVERSE REACTIONS, CONTACT A PHYSICIAN IMMEDIATELY.

Ingestion
NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. Have patient drink several glasses of water or milk. DO NOT induce vomiting. Keep airway clear. GET MEDICAL ATTENTION IMMEDIATELY.
5. Fire Fighting Measures

**Flash Point**  258°C  
**FP Method**  Cleveland Closed Cup  

**Auto-ignition Temperature**  Not determined  

**Flammability Limits in Air**  Not determined  

**Extinguishing Media**  
Carbon Dioxide, Dry Chemical, Foam, Water Spray

**Fire Fighting Procedures**  
Keep unauthorized personnel removed and upwind. Wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus and full protective clothing.

**Fire and Explosion Hazard**  
Water may spread fire (product floats on water).

**Sensitivity to Mechanical Impact**  None known  

**Sensitivity to Static Discharge**  None known  

**Hazardous Combustion Products**  
Carbon dioxide, carbon monoxide, hydrogen sulfide, sulfur dioxide, sulfur trioxide

6. Accidental Release Measures

**Personal Precautions**  
Observe all personal protective equipment recommendations described in Sections 5 and 8.

**Environmental Precautions**  
Use appropriate containment to avoid environmental contamination.

**Methods for Cleaning Up**  
Add dry material to absorb spill (if large spill, dike to contain). Using recommended protective equipment, pick up bulk of spill and place in containers for recovery or disposal. Flush area with water to remove residues.

7. Handling and Storage

**Handling**  
Do not get in eyes, on skin or clothing.
Storage
Store containers in a cool, dry, ventilated, fire resistant area away from sources of ignition and incompatible materials. Do not store near resinous materials with epoxy functionality. Keep container tightly closed and properly labeled.

8. Exposure Controls and Personal Protection

Engineering Controls
Handle product in a well ventilated area. If product is handled in an open system, the use of process enclosures, local exhaust ventilation, and/or other engineering controls should be considered to control airborne levels to below recommended exposure limits, or below acceptable levels where there are no limits.

Respiratory
Use a NIOSH approved full-face respirator with organic vapor acid gas cartridge when handling this material if warranted. A respiratory protection program that meets 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant use of a respirator.

Eye/Face
Wear chemical safety goggles (ANSI Z87.1).

Skin
Wear chemical resistant gloves such as rubber, neoprene or vinyl, and work clothing with full length sleeves.

Other Precautions
Have emergency shower and eye wash available.

9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
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<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.15</td>
</tr>
<tr>
<td>Color/Appearance</td>
<td>Clear, white to yellow</td>
</tr>
<tr>
<td>Odor</td>
<td>Mercaptan-like</td>
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<tr>
<td>Boiling/Cond. Point</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Melting/Freezing Point</td>
<td>Not Determined</td>
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<tr>
<td>Solubility</td>
<td>Slight in water</td>
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<tr>
<td>Evaporation Rate</td>
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<td>VOC %</td>
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<tr>
<td>Percent Volatile</td>
<td>0.3 @ 70F (by wt)</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not Determined</td>
</tr>
</tbody>
</table>

Note
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10. Stability and Reactivity

Chemical Stability
Stable
Hazardous Polymerization
Will not occur

Materials to Avoid
Acids, oxidizers

Comments
The use of water for fire fighting measures may spread fire.

Hazardous Combustion Products
Carbon dioxide, carbon monoxide, hydrogen sulfide, sulfur dioxide, sulfur trioxide

11. Toxicological Information
Oral LD50 (rat): 2.6 g/kg
Eye Irritation (rabbit): 16.8/110
Skin Irritation (rabbit): 1.2/8
Skin Sensitization (guinea pig): Negative
Dermal LD50 (rabbit): >10.2 g/kg

12. Ecological Information
Ecotoxicity
The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Mobility
The product is slightly soluble in water

Bioaccumulative Potential
Not established

Environmental Effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

13. Disposal Considerations
Dispose of all waste and contaminated equipment in accordance with all applicable federal, state and local health and environmental regulations.

14. Transportation Information
General Information
Not dangerous goods according to RID/ADR, ADNR, IMDG.
DOT Information
Not regulated for highway transportation

Air Transportation (AITA)
UN3334, Aviation Regulated Liquid, N.O.S. (Mercaptan-terminated polymer), 9

15. Regulatory Information

US Federal Regulations
OSHA Standard 29 CFR 1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, material safety data sheets, training and access to written records. We request that you, and it is your legal duty to, make all information in this Material Safety Data Sheet available to your employees.

TSCA Status
All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

SARA Title III Section 311/312 Hazard Class
Acute: No
Chronic: No
Fire: No
Pressure: No
Reactive: No

16. Other Information

Disclaimer
The data contained herein is based upon information that Accumetric LLC believes to be reliable. Users of this product have the responsibility to determine that suitability of use and to adopt all necessary precautions to ensure the safety and protection of property and persons involved in said use. All statements or suggestions are made without warranty, expressed or implied, regarding the accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof.