

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

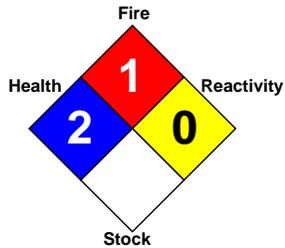
(270) 769-3385

Emergency Phone

CHEMTREC (800) 424-9300

CHEMTREC International (703) 527-3887

Revision Date 4/15/2014



Health:	2
Fire:	1
Reactivity:	0
Stock	

2. Composition and Information on Ingredients

Ingredient	CAS Number	Weight %	ACGIH TLV	PEL	STEL
Bisphenol A / Epichlorohydrin Resin	25068-38-6	60% - 100%			

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	490F 254C
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

Physical State	Liquid
Specific Gravity	1.16
Color/Appearance	Clear
Odor	Slight
pH	Not determined
Boiling/Cond. Point	> 200C 392C
Melting/Freezing Point	Not determined
Solubility	Insoluble in water
Evaporation Rate	Not determined
Percent Volatile	Not determined
Vapor Density	Not determined
Vapor Pressure	~ 1mm Hg @ 180C

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

Hazardous Polymerization

Will not occur

Chemical Stability

Stable

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.

MSDS Document

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

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

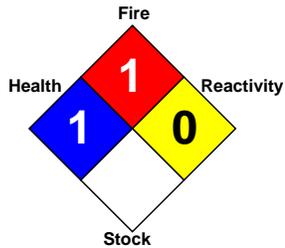
(270) 769-3385

Emergency Phone

CHEMTREC (800) 424-9300

CHEMTREC International (703) 527-3887

Revision Date 4/15/2014



Health:	1
Fire:	1
Reactivity:	0
Stock	

2. Composition and Information on Ingredients

Ingredient	CAS Number	Weight %	ACGIH TLV	PEL	STEL
This product does not contain any hazardous chemicals as defined by the OSHA Haz	Trade Secret				

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.

Note to Physician

No further data known.

5. Fire Fighting Measures

Flash Point 258C
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

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

Note

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

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

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