

MATERIAL SAFETY DATA SHEET

**ACCUMETRIC INC.
BOSS® PRODUCTS
350 RING ROAD
ELIZABETHTOWN, KY 42701
800-928-2677**

BOSS® 286

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Tradename: BOSS® 286
General Use: When fully cured, the mixed product is non-hazardous
Chemical Family: Epoxy Resin & Polycaptan Curing Agent

Accumetric Inc.
350 Ring Road
Elizabethtown, KY 42701

Emergency Information: Chemtrec: 800-424-9300
Other Calls; Accumetric Inc.: 502-769-3385

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Constituents

<u>Constituent</u>	<u>Abbr.</u>	<u>CAS No.</u>	<u>Wt. %</u>	<u>ACGIH</u>	<u>OSHA</u>	<u>Other</u>
Bisphenol A diglycidyl ether resin	DGEBPA	25068386	10-45	n/e	n/e	n/e
2,4,6-Tri-(dimethylaminomethyl)phenol	DMP	90722	1-15	n/e	n/e	n/e
Mercaptan amine blend			10-40	n/e	n/e	n/e

"TLV" means the Threshold Limit Value exposure (eight-hour, time-weighted average, unless otherwise noted) established by the American Conference of Governmental Industrial Hygienists. "STEL" indicates a short-term exposure limit. "PEL" indicates the OSHA Permissible Exposure Limit. "n/e" indicates that no exposure limit has been established. An asterisk (*) indicates a substance whose identity is a trade secret of our supplier and unknown to us.

SECTION 3. HAZARDS IDENTIFICATION

Emergency Overview

Appearance, form, odor: (Color varies) putty with low odor.

Caution! Eye and skin irritant. Potential skin sensitizer. Avoid eye contact. May be harmful if swallowed. Wash with soap and water after use. In case of eye contact, flush with water for 15 minutes and seek medical attention.

Potential Health Effects

Primary Routes of Exposure: Skin Contact X
Skin Absorption
Eye Contact X
Inhalation
Ingestion

Symptoms of acute overexposure:

Skin: May cause irritation and sensitization to sensitive skin

Eyes: Mild irritation

Inhalation: No data

Ingestion: No data. May cause irritation

Effects of chronic overexposure:

Prolonged or repeated overexposure may cause allergic sensitization.

Carcinogenicity - OSHA regulated: No ACGIH: No
National Toxicology Program: No
International Agency for Research on Cancer: No
Cancer-suspect constituent(s): None

Medical Conditions which may be aggravated by exposure:
Dermatitis and skin allergies.

Other effects:
See SECTION 11.

SECTION 4. FIRST AID MEASURES

First aid for eyes: Flush with clear water for 15 minutes.
First aid for skin: Wash thoroughly with soap and water.
First aid for inhalation: Remove to fresh air.
First aid for ingestion: Contact a physician. Do not induce vomiting.

SECTION 5. FIRE FIGHTING PROCEDURES

Extinguishing Media: Water

Carbon dioxide	X
Dry chemical	X
Foam	X
Alcohol Foam	

Flash Point (°F): >300

Method: TOC

Explosive limits in air (percent) - Lower: n/d Upper: n/d

Special firefighting procedures:

Firefighters should wear self-contained breathing apparatus and protective clothing.

Unusual fire and explosion hazards:

None.

Hazardous products of combustion:

Oxides of carbon and nitrogen. Ammonia.

Other unknown, potentially toxic contaminants.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Spill Control:

Avoid personal contact. Eliminate ignition sources. Ventilate area.

Contaminant:

Dike, contain and absorb with clay, sand or other suitable material.

Cleanup:

Pick up and dispose of in an appropriate container.

Flush area with water to remove trace residue.

Special Procedures:
Prevent spill from entering

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SECTION 7. HANDLING AND STORAGE

Handling Precautions:

Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after using and particularly before eating, drinking, smoking, applying cosmetics or using toilet facilities.

Launder contaminated clothing and protective gear before reuse. Discard contaminated leather articles.

Handle mixed resin and hardener in accordance with the potential hazard of the curing agent used. Provide appropriate ventilation/respiratory protection against decomposition products (see SECTION 10) during welding/flame cutting operations and particles (silica) during sanding/grinding operations.

Storage:

Store in a cool, dry area away from high temperatures and flames.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls

Ventilation:

General mechanical is satisfactory. If odor is disagreeable, use local exhaust.

Other engineering controls:

Have emergency shower and eye wash available

Personal protective equipment

Eye and face protection:

Safety glasses

Skin protection:

Polyethylene gloves for prolonged use.

Respiratory protection:

Non needed in normal use with proper ventilation.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Specific gravity: 1.9 Boiling point (°F): n/d

Melting point: n/d

Vapor density (air=1):>1

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Vapor pressure (mmHg):	Nil at 78 °F	Evaporation rate (butyl acetate =1):	<1
VOC (grams/liter):	0	Solubility in water:	negligible
Percent volatile by volume:	0	pH (5% solution or slurry in water):	n/d
Percent solids by weight:	100		

SECTION 10. STABILITY AND REACTIVITY

This material is chemically stable. Hazardous polymerization will not occur.

Conditions to avoid:

Exposure to open flame or excessive heat.

Incompatible materials:

Strong oxidizing agents

Hazardous products of decomposition:

Oxides of carbon, sulfur and nitrogen. Aldehydes and acids. Other, unknown and potentially toxic contaminants.

Conditions under which hazardous polymerization may occur.

None.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral effects: LD50 (rat): Not determined

Acute dermal effects: LD50 (rabbit): Not determined

Acute inhalation effects: LC50 (rat): Not determined Exposure: hours

Eye irritation: Slight irritant (rabbit)

Subchronic effects: No data available

Carcinogenicity, teratogenicity, and mutagenicity:

Both the resin and the diglycidyl ether of bisphenol A (a component of this product) have proved to be inactive when listed by in vivo mutagenicity assays. Both have shown activity by In Vitro microbial mutagenicity screening and have produced chromosomal aberrations in cultured rat liver cells.

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Other chronic effects:

2-year bioassays in mice exposed by the dermal route to EPON 828, DGEBA, or other commercial resins yielded limited evidence of weak carcinogenicity. The authors concluded that the renal tumor evidence with EPON 828 "was of no biological significance" and that the resin "is not a systemic carcinogen when applied to the dorsal skin of CF1 mice." Overexposure to fumes and vapors of amine components may cause lung injury or chemical pneumonia.

Toxicological information on hazardous chemical constituents of this product:

<u>Constituent</u>	<u>Oral LD50</u> <u>(rat)</u>	<u>Dermal LD50</u> <u>(rabbit)</u>	<u>Inhalation LC50</u> <u>4 hr, (rat)</u>
Bisphenol A diglycidyl ether resin	30 g/kg	>20 ml/kg	no deaths
2,4,6-Tri(dimethylaminomethyl)phenol	1200 mg/kg	1350 mg/kg	>0.5 mg/L
Mercaptan amine blend	n/d	n/d	n/d

"n/d" = not determined

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity: No data
Mobility and persistence: No data
Environmental fate: No data

SECTION 13. DISPOSAL CONSIDERATIONS

Please see also SECTION 15, Regulatory Information

Waste Management recommendations:

If this resin becomes a waste, it would not be a hazardous waste by RCRA criteria (40CFR 261).
Dispose of according to applicable federal, state, and local regulations.

SECTION 14. TRANSPORT INFORMATION

Proper shipping name: Non-regulated material
Technical name:
Hazard class:
UN number:
Packing group:
Emergency Response Guide No.:
IMDG page number:
Other:

SECTION 15. REGULATORY INFORMATION

U.S. Federal Regulations

TSCA

All ingredients of this product are listed, or are exempt from listing, on the TSCA inventory.

The following RCRA code(s) applies to this material if it becomes waste: None

Regulatory status of hazardous chemical constituents of this product:

<u>Constituent</u>	<u>Extremely Hazardous*</u>	<u>Toxic Chemical**</u>	<u>CERCLA RQ (lbs)</u>	<u>TSCA 12B Export Notification</u>
Bisphenol A diglycidyl ether resin	No	No	None	Required
2,4,6 Tri(dimethylaminomethyl)phenol	No	No	None	Not Required
Mercaptan amine blend	No	No	None	Not Required

*Consult the appropriate regulations for emergency planning and release reporting requirements for substances on the SARA Section 301 Extremely Hazardous Substance list.

**Substances for which the "Toxic Chemical" column is marked "Yes" are on the SARA Section 313 list of Toxic Chemicals, for which release reporting may be required. For specific requirements, consult the appropriate regulations.

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For purposes of SARA Section 312 hazardous materials inventory reporting, the following hazard classes apply to this material.

Immediate Health Hazard - Delayed Health Hazard

Canadian Regulations

WHMIS hazard class(es): None

All components of this product are on the Domestic Substances List.

SECTION 16. OTHER INFORMATION

Hazardous Materials Information

System (HMIS) ratings: Health 1, Flammability 1, Reactivity 0

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