

Safety Data Sheet

Issue Date: 01-Jan-2005

Revision Date: 27-Jan-2014

Version 1

1. IDENTIFICATION

Product Identifier

Product Name E-R Resin

Other means of identification

SDS # PRS-002

Product Code E-R Resin

Recommended use of the chemical and restrictions on use

Recommended Use Epoxy resin.

Details of the supplier of the safety data sheet

Manufacturer Address

Prosthetics Research Specialists, Inc.
720 E. Southland Avenue
Bushnell, FL USA 33513

Emergency Telephone Number

Company Phone Number 352-793-4477

Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Water-white to yellow liquid
to semi-solid

Physical State Liquid Semi-solid

Odor Faint epoxy odor

Classification

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Polymer of epichlorohydrin and bisphenol A	25085-99-8	100

4. FIRST-AID MEASURES

First Aid Measures

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Skin Contact	Wash off immediately with plenty of water. Wash contaminated clothing before reuse.
Inhalation	Remove to fresh air. Call a physician.
Ingestion	Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and effects

Symptoms	This product may cause transient eye irritation. Can cause allergic response in susceptible or hypersensitive individuals upon repeated or prolonged exposure.
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Indication of any immediate medical attention and special treatment needed

Notes to Physician	No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.
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5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Foam, Carbon dioxide (CO₂), Dry chemical.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

None known.

Hazardous Combustion Products Carbon oxides. Phenolic compounds.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Use personal protective equipment as required.

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up Soak up in adsorbent material such as sand and collect in suitable containers. Residual resin may be removed using steam or hot soapy water.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Avoid breathing vapors of heated material.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible Materials

Bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

No exposure limits noted for ingredient(s)

Appropriate engineering controls

Engineering Controls

Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/Face Protection

Goggles.

Skin and Body Protection

For prolonged or repeated skin contact use suitable protective gloves.

Respiratory Protection

Ensure adequate ventilation, especially in confined areas.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State

Liquid Semi-solid

Appearance

Water-white to yellow liquid to semi-solid

Odor

Faint epoxy odor

Color

Water-white to yellow

Odor Threshold

Not determined

Property

Values

Remarks • Method

pH

Not determined

Melting Point/Freezing Point

Not determined

Boiling Point/Boiling Range

Not applicable

Flash Point

252 °C / 485 °F

Pensky-Martens Closed Cup (PMCC)

Evaporation Rate

Not determined

Flammability (Solid, Gas)

Not determined

Upper Flammability Limits

Not applicable

Lower Flammability Limit

Not applicable

Vapor Pressure

Not applicable

Vapor Density

Not applicable

Specific Gravity

1,16

Water Solubility

Insoluble in water

Solubility in other solvents

Not determined

Partition Coefficient

Not determined

Auto-ignition Temperature

Not determined

Decomposition Temperature

Not determined

Kinematic Viscosity

Not determined

<u>Property</u>	<u>Values</u>	<u>Remarks - Method</u>
Dynamic Viscosity	Not determined	
Explosive Properties	Not determined	
Oxidizing Properties	Not determined	

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization

Masses of more than 1 lb (0.5kg) of product plus an aliphatic amine will cause irreversible polymerization with considerable heat buildup.

Conditions to Avoid

Avoid prolonged excess heat which may cause product decomposition.

Incompatible Materials

Bases.

Hazardous Decomposition Products

Carbon oxides. Phenolics.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact	Avoid contact with eyes.
Skin Contact	Avoid contact with skin.
Inhalation	Avoid breathing vapors or mists.
Ingestion	Do not taste or swallow.

Component Information

<u>Chemical Name</u>	<u>Oral LD50</u>	<u>Dermal LD50</u>	<u>Inhalation LC50</u>
Polymer of epichlorohydrin and bisphenol A 25085-99-8	>2000 mg/kg (rat)	>2000 mg/kg (rabbit)	-

Information on physical, chemical and toxicological effects

Symptoms	Please see section 4 of this SDS for symptoms.
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Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
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Numerical measures of toxicity

Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity

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

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Not determined

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

DOT

Not regulated

IATA

Not regulated

IMDG

Not regulated

15. REGULATORY INFORMATION**International Inventories****TSCA** Listed**Legend:***TSCA - United States Toxic Substances Control Act Section 8(b) Inventory**DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List**EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances**ENCS - Japan Existing and New Chemical Substances**IECSC - China Inventory of Existing Chemical Substances**KECL - Korean Existing and Evaluated Chemical Substances**PICCS - Philippines Inventory of Chemicals and Chemical Substances***US Federal Regulations****CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

US State Regulations**U.S. State Right-to-Know Regulations**

Not determined

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards	Flammability	Instability	Special Hazards
	1	1	0	Not determined
<u>HMIS</u>	Health Hazards	Flammability	Physical Hazards	Personal Protection
	Not determined	Not determined	Not determined	Not determined

Issue Date: 01-Jan-2005**Revision Date:** 27-Jan-2014**Revision Note:** New format**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet