



SAFETY DATA SHEET

PB Resin, Part B

Section 1. Identification

Product Identifier: PB Resin Modified Epoxy Hardener, Part B

Product type: Aliphatic Amine - Corrosive Liquid N.O.S. UN/NA Number 1760

Recommended Use: Use to create an ultra smooth surface on Precision Board Plus High-Density Urethane.

Manufacturer's Name & Address	Emergency Telephone Number (24/7)
Coastal Enterprises Company P.O. Box 4875 Orange, CA 92863-4875 Non- Emergency phone (800) 845-0745	Chemtrec: (800) 424-9300

Section 2. Hazards Identification

OSHA/HCS status: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910, 1200). Information critical to the safe handling and proper use of the product is contained within this SDS.

Classification of the substance or mixture: OSHA Fire Hazard Class III-B Combustible liquid

GHS label elements

Signal word	Corrosive N.O.S.
Hazard statements	See information contained within this SDS
Precautions	Avoid ingestion, inhalation, skin and eye contact. Handle in accordance with good industrial hygiene practice and any legal requirements.

Other hazards which do not result in classification: Handling and/or processing of the material may cause mechanical irritation of the eyes, skin, nose, and throat.

Section 3. Composition / Information on Ingredients

Product Composition:	WGT%	
Phenol, 4-nonyl-, branched	55-60%	C.A.S. NO. 84852-15-13



N-Aminoethylpiperazine
Polyoxyalkyleneamine

4-7%
35-40%

C.A.S. NO. 140-31-8
C.A.S. NO. 904-61-00

Section 4. First-Aid Measures

Description of necessary first aid measures

Eye Contact: Immediately flush eyes with water, lift upper and lower eyelids. Remove contact lenses. Get medical attention if irritation persists.

Inhalation: Move to an area that has plenty of fresh air. Rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Skin Contact: Flush contaminated skin with water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Ingestion: Do not induce vomiting. Immediately give two glasses of water or activated charcoal slurry. Call a physician immediately.
Note: To prepare charcoal slurry, suspend 50 grams of charcoal in 400 ml. water and mix thoroughly. Give 5 ml/kg of body weight, of 350 ml. for an average adult.

Effects of over-exposure:

Acute:

Eye contact	Severe eye irritation, impaired vision, cloudy cornea
Inhalation	Nervous System changes, emotional changes, lack of coordination, tremors, sensory loss
Skin contact	Redness, swelling, blistering, itching.
Ingestion	Pain, vomiting, abdominal tenderness, nausea,

Chronic: See above. Liver Effects, Kidney Effects, Nervous System Effects, Reproductive/Developmental Toxins

Indication of immediate medical attention and special treatment needed:

Notes to physician No specific treatment. Treat symptomatically. Call medical doctor or poison control center if large quantities have been ingested.

Protection of first-aiders No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-Fighting Measures

Flash point 200°F
Extinguishing media



Suitable media	Water Fog, Dry Chemical, Carbon Dioxide, or Foam
Unsuitable media	None known
Specific hazards arising from the material	Combustible: Combustion may occur in the presence of other fuels. Heating can release vapors, which can be ignited. Hazardous gases/vapors produced in fire are carbon monoxide, oxides of nitrogen and highly toxic cyanide fumes.
Hazardous thermal decomposition products	Carbon Monoxide, carbon dioxide, oxides of nitrogen
Special protective actions for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire, No action will be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Note: Either atmosphere-supply or air-purifying respirators should be available for fire fighters (20-CFR 1910.134)

Section 6. Accidental Release Measures

If material is spilled:	Avoid contact with material. Persons not wearing proper protective equipment should be excluded from the area until clean up is complete. Dike area to prevent spill spreading and scoop up excess to recovery containers. Absorb remnant on noncombustible material such as clay and shovel into containers for disposal.
Waste disposal method:	Dispose of any waste generated above in accordance with federal state and local regulation.

Section 7. Handling and Storage

Precautions for safe handling

Protective measures	Put on protective equipment (See Section 8)
Advice on general hygiene	Eating, drinking should be prohibited in areas where this material is handled and stored. Wash hands and face before eating and drinking. Remove contaminated clothing and protective equipment before entering eating areas.
Conditions for safe storage	Store in accordance with local regulations. Protect from direct sunlight.

Section 8. Exposure Controls / Personal Protection

Control parameters

Appropriate engineering controls None

Environmental exposure controls Use in well-ventilated area

Individual protection measures

Hygiene Wash hands, forearms, and face thoroughly after handling material. Ensure that eye wash stations and safety glasses are near workstation.

Eye/face protection Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to dust.

Hand protection Wear protective gloves and safety glasses

Body protection Personal protective equipment for the body should be selected based on the task being performed and the risks involved.

Skin protection Appropriate footwear (Steel toe shoes) and any additional skin protection measures should be selected based on the task being performed.

Respiratory protection Use a proper fitted, particulate filter mask complying with an approved standard if the risk assessment indicates this is necessary.

Thermal hazards N/A

Section 9. Physical and Chemical Properties

Appearance

Physical state	Liquid	Vapor pressure	<2 MMGH
Color	Amber	Vapor density	<1
Odor	Ammonia	Specific gravity	.95
Odor threshold	N/A	Solubility in water	Neglig.
PH	N/A	Partition coefficient	N/A
Melting point/Freezing	N/A	Auto-ignition temp.	N/A
Boiling/condensation point	390°F	Decomposition temp	N/A
Flash point	200°F	Viscosity	<600 CPS
Evaporation rate	<1BUDAC=1		
Flammability (solid, gas)	IIIB		
Lower and upper explosive (flammable) limits	N/A		

Section 10. Stability and Reactivity

Reactivity: No specific test data related to reactivity available for this product or its ingredients.

Chemical stability: Stable

Possibility of hazardous reactions Hazardous polymerization will not occur.

Conditions to avoid	No specific data
Incompatible materials	Strong acids, strong bases, amines
Hazardous decomposition	Carbon Monoxide, Carbon Dioxide, Aldehydes

Section 11. Toxicological Information

Information on toxicological effects:

Acute toxicity N/A

Irritation/Corrosion

Conclusion Summary

Skin / Eyes / Respiratory: No additional information

Sensitization	N/A	Mutagenicity	N/A
Carcinogenicity	N/A	Reproductive toxicity	N/A
Teratogenicity	N/A	Specific target organ toxicity	N/A
Aspiration hazard	N/A	Information on the likely routes of exposure	N/A

Potential acute health effects

Eye Contact:	Mildly irritating to eye, redness swelling, tearing
Inhalation	Headache, dizziness, drowsiness, slowed reaction time
Skin contact	Mildly irritating, redness, swelling, itching.
Ingestion	Unlikely, pain, vomiting, nausea, abdominal tenderness

Symptoms related to the physical, chemical and toxicological characteristics

Eye Contact:	No specific data
Inhalation	No specific data
Skin contact	No specific data
Ingestion	No specific data

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential Immediate effects	N/A
Potential delayed effects	N/A

Potential chronic health effects

General	No known significant effects or critical hazards
Carcinogenicity	No known significant effects or critical hazards
Mutagenicity	No known significant effects or critical hazards
Teratogenicity	No known significant effects or critical hazards
Developmental effects	No known significant effects or critical hazards
Fertility effects	No known significant effects or critical hazards

Numeric measures of toxicity

Acute toxicity estimates N/A

Other Information: N/A

Section 12. Ecological Information

Toxicity: N/A Bioaccumulative potential N/A



Persistence and degradability N/A Mobility in soil N/A

Other adverse effects: No known significant effects or critical hazards

Other ecological information
BODS / COD / TOC Not determined

Section 13. Disposal Considerations

Disposal methods: Generation of waste should be avoided or minimized whenever possible. Disposal should be in accordance with applicable regional, national and local laws and regulations. Dispose of surplus and non-recyclable products via a licensed waste contractor.

Section 14. Transport Information

Proper shipping name:

DOT	Not regulated	IMDG	Not regulated
TDG	Not regulated	IATA	Not regulated

Section 15. Regulatory Information

Safety, health and environmental regulations specific for this product:

United States Regulations

TSCA 8(b) Inventory	All components are listed or exempted
TSCA 5(a) 2 final significant new use rule (SNUR)	No ingredients listed
TSCA 5(e) substance constant order	No ingredients listed
TSCA 12(b) export notification	This product contains chemicals which are regulated by TSCA 12(B) regulation and it is required that proper export notification shall be sent to EPA prior to shipping out of the United States of America. Bisphenol A Diglycidyl Ether C.A.S. NO. 001675-54-3
SARA 311/312	Not classified
Clean Air Act-Ozone Depleting Substances (ODS)	This product does not contain nor is it manufactured with ozone depleting substances
SARA 313	No ingredients listed
CERCLA Hazardous substances	No ingredients listed
<u>State regulations</u> Pennsylvania - RTK	No ingredients listed



California Prop 65 State Listed Component 2PPM State Codes: MA, CA65, PA, NJ
 *Epichlorohydrin (C.A.S. NO. 106-89-8)
 Phenol, 4, 4'- (1-Methylethlidene) BIS-, Polymer with (Chloromethyl)
 Oxirane (C.A.S. NO. 25068-38-6)

*This product contains a chemical or chemicals known to the State of California to cause cancer and/or reproductive toxicity

Canadian regulations

CEPA DSL All components are listed or exempted
 WHMIS Nat controlled under WHMIS (Canada)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

Brazil Regulations

Classification system used Norma ABNT-NBR 14725-2:2012

International lists:

Australia Inventory (AICS):	All components are listed or exempted
China Inventory (IECSC)	All components are listed or exempted
Japan Inventory	All components are listed or exempted
Korea Inventory	All components are listed or exempted
Malaysia Inventory (EHS Register)	Not determined
New Zealand Inventory of Chemicals (NZIoC)	At least one component is not listed
Phillippines Inventory (PICCS)	All components are listed or exempted
Taiwan Inventory (CSNN)	Not determined

Section 16. Other Information

Hazardous Material:

Information System (USA)	Health:	2
	Flammability:	1
	Physical Hazards:	0
	Personal Protection:	0

The customer is responsible for determining the PPE code for this material.

Caution HMIS(R) ratings are based on a 0-4 rating scale with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS(R) ratings are not required on SDSs under 29 CFR 1910 1200, the preparer may choose to provide them. HMIS(R) are to be used with a fully implemented HMIS(R) program. HMIS(R) is a registered mark of the National Paint & Coatings Association (NPCA). HMIS(R) materials may be purchased exclusively from J. .J. Keller (800) 327-6868.

National Fire Protection Association (USA)

Health:	2
Flammability:	1
Physical Hazards:	0
Personal Protection:	0

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guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

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