

SAFETY DATA SHEET

1. Product Identification

Product name Perma-Chink E-Wood Paste Resin, Part A

SDS Number 1610A00

Product type Epoxy Resin Mixture

Recommended use of the chemical and

restrictions on use

Recommended for, but not limited to, the repair of damaged or rotted wood.

Restrictions None known.

Manufacturer/Supplier information

Company name Perma-Chink Systems, Inc.

Address 1605 Prosser Rd Ste 1

Knoxville, TN

United States

Telephone (800) 548-3554

Website www.permachink.com
Email info@permachink.com

Emergency Contact CHEMTEL (U.S. and CANADA) 1-800-704-9215

CHEMTEL (Outside the U.S.) – Call Collect accepted +1-360-256-7365

2. Hazard(s) Identification

Classification of substance or

mixture/Signal Word

WARNING

Skin Corrosion/Irritation – Category 2

Serious Eye Damage/Eye Irritation - Category 2

Skin Sensitization - Category 1

Specific Target Organ Toxicity (Single Exposure) [Respiratory tract irritation] –

Category 3

GHS Label Elements
Hazard Pictograms



Hazard Statements/Classification of

substance or mixture

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.H335 May cause respiratory irritation.

Precautionary statements

Precautionary Statements

Prevention

P261 Avoid breathing fumes/vapors.

P264 Wash hands and exposed skin thoroughly after handling.

P272 Contaminated work clothes should not be allowed out of the

workplace.

P273 Avoid release to the environment.

P280 Wear eye protection/face protection. Wear protective gloves.

P281 Use personal protective equipment as required.

Response P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several

minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

Storage P405 Store locked up.

Disposal P501 Disposal of contents/container to be specified in accordance with

regulations.

Hazards not otherwise classified (HNOC) None known.

3. Composition/Information On Ingredients

Chemical Name	CAS Number	Content (%)
Diglycidyl Ether of Bisphenol A	25068-38-6	50 – 60%
Neopentyl Glycol Diglycidyl Ether	17557-23-2	15 – 20%
Diglycidyl Ether of Bisphenol F	28064-14-4	3 – 8%

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

4. First-Aid Measures

Remove material from skin immediately by washing with soap and plenty of water. Remove contaminated clothing and shoes while washing. Seek medical attention if irritation persists. Wash clothing before reuse. Discard items that cannot be decontaminated, including leather articles such as shoes, belts and

watchbands. Safety shower should be located in immediate work area.

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes. Get medical attention. Suitable emergency eye wash

facility should be available in work area.

Wash out mouth with water. Remove dentures if any. Remove victim to fresh

air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or

waistband.

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for

breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Indication of immediate medical attention and special treatment needed, if necessary

Skin contact

Eye contact

Ingestion

Notes to physician Treat symptomatically. Contact poison treatment specialist immediately if

large quantities have been ingested or inhaled.

Specific treatments No specific treatment.

5. Fire-Fighting Measures

Suitable extinguishing media Unsuitable extinguishing media

Specific hazards arising from the chemical

Use an extinguishing agent suitable for the surrounding fire.

None known.

In a fire or if heated, a pressure increase will occur and the container may

burst.

Hazardous decomposition products Decomposition products may include carbon monoxide, carbon dioxide,

aldehydes, acids and halogenated compounds. Toxic fumes may be evolved

when this product is burned.

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 shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done

without risk.

Special protective equipment for fire-

fighters

Fire fighters should wear appropriate protection equipment and self-contained

breathing apparatus (SCBA) with a full face-piece operated in a positive

pressure mode.

Further information None.

6. Accidental Release Measures

Personal precautionsNo action shall be taken involving any personal risk or without suitable

training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. Proper PPE includes: disposable gloves, eye protection

and skin protection.

Emergency procedures If specialized clothing is required to deal with the spillage, take note of any

information in Section 8 on suitable and unsuitable materials. See also the

information in "For nonemergency personnel".

Methods and materials for containment/cleanup Small Spill

Stop leak if without risk. Move containers from spill area. Absorb with an inert absorbent material and place in an appropriate waste disposal container.

Dispose of via a licensed waste disposal contractor. Wash the spill area clean

with water and detergent, observing environmental requirements.

Large Spills Stop leak if without risk. Move containers from spill area. Use spark-proof tools

and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, watercourses, basements or confined areas. Contain and collect spillage with inert, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Wash the spill area clean with water and detergent, observing environmental requirements. Note: see Section 1 for emergency

contact information and Section 13 for waste disposal.

Environmental precautions Avoid dispersal of spilled material and runoff and contact with soil, waterways,

drains and sewers. Inform the relevant authorities if the product has caused

environmental pollution (sewers, waterways, soil or air).

7. Handling and Storage

Precautions for safe handling

Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Avoid breathing vapor or mist. Do not swallow. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Precautions/Recommendations for safe/proper storage

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. Exposure Controls/Personal Protection

Occupational Exposure Limits

None established.

Appropriate engineering controls

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures/Personal protective equipment

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 liquid splashes, mists, gases or dusts. Recommended: chemical splash goggles.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Skin protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator

selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Special instructions for protection and hygiene

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

9. Physical and Chemical Properties

Chemical familyEpoxy resinAppearanceTan Paste

Physical State

Form Paste
Color Tan

Odor Characteristic odor

Density (Specific Gravity) 0.8 – 0.9 g/cm³

Viscosity 130,000 CPS @77°F

pH N/A
Melting point/freezing point N/A
Initial boiling point and boiling range N/A
Flash point N/A

Evaporation rate Slower than ether

Flammability (solid, gas)

Upper/lower flammability limit (by volume)

N/A

Upper flammability limit (by volume)

N/A

Lower flammability limit (by volume)

N/A

Material VOC

N/A

Vapor density

Relative density

Not determined

Solubility in water

Negligible

Partition coefficient: n-octanol/water

N/A

Auto-ignition temperature N/A

Decomposition temperature N/A

10. Stability and Reactivity

Reactivity Stable under normal conditions.

Chemical Stability Stable.

Possibility of hazardous reactions Under normal conditions of storage and use, hazardous reactions will not

occur.

Conditions to avoid Epoxy resins and epoxy resin hardeners react with each other producing heat.

They should not be mixed with each other under uncontrolled conditions or in a large mass as the ensuing exothermic reaction may produce heat, smoke and hazardous decomposition products. Caustic soda (sodium hydroxide) can

induce vigorous polymerization at temperatures around 200 °C.

Incompatible materials Strong oxidizing agents, sodium hydroxide, Lewis and mineral acids.

Hazardous decomposition productsCarbon monoxide, carbon dioxide, aldehydes and acids.

Other hazards None.

11. Toxicological Information

Acute Health Hazard (components)

No comprehensive data on product itself.

Component	Result	Species	Dose	Exposure
Diglycidyl Ether of Bisphenol A	LD50 Oral	Rat	11,400 mg/kg	-
	LD50 Dermal	Rat	2,000 mg/m3	4 h
Neopentyl Glycol Diglycidyl Ether	LD50 Oral	Rat	4,500 mg/kg	-
	LD50 Dermal	Rat	>2,000 mg/kg	-

Irritation/Corrosion (components)

No information on product itself.

Component	Result	Species	Test	Exposure
Diglycidyl Ether of Bisphenol A	Moderate to severe irritation	Rabbit	Skin	4 h
	Mild irritation	Rabbit	Eye	24 h
Diglycidyl Ether of Bisphenol F	Mild irritant	Rabbit	Skin	-
	Mild irritant	Rabbit	Eye	-

 Sensitization
 No information on product itself.

 Mutagenicity
 No information on product itself.

 Carcinogenicity
 No information on product itself.

 Reproductive Toxicity
 No information on product itself.

 Teratogenicity
 No information on product itself.

 Specific target organ toxicity (single)
 No information on product itself.

exposure)

Component	Category	Route of exposure	Target organs
Diglycidyl Ether of Bisphenol A	Category 3		Respiratory tract irritation
Neopentyl Glycol Diglycidyl Ether	Category 3		Respiratory tract irritation
Diglycidyl Ether of Bisphenol F	Category 3		Respiratory tract irritation

Specific target organ toxicity (repeated

No information on product itself.

exposure)

<u>Aspiration hazard</u> No information on product itself.

Potential acute health effects

Eye ContactCauses serious eye irritation.InhalationMay cause respiratory irritation.

Skin Contact Causes severe skin irritation. May cause an allergic skin reaction.

Ingestion Irritating to the mouth, throat, and stomach.

Symptoms related to the physical, chemical

and toxicological characteristics

Eye Contact Adverse symptoms may include the following:

Pain or irritation

Watering Redness

Inhalation Adverse symptoms may include the following:

Respiratory tract irritation

Coughing

Skin Contact Adverse symptoms may include the following:

Irritation Pain Redness

Not available.

Ingestion No specific data

<u>Delayed and immediate effects and also</u> <u>chronic effects from short and long term</u>

exposure

Potential chronic health effects

General Once sensitized, a severe allergic reaction may occur when subsequently

exposed to very low levels.

CarcinogenicityNo known significant effects or critical hazards.MutagenicityNo known significant effects or critical hazards.TeratogenicityNo known significant effects or critical hazards.Developmental effectsNo known significant effects or critical hazards.Fertility effectsNo known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates (ATEmix) Not available.

12. Ecological Information

Ecotoxicity

No information on the product itself.

Component	Test	Species	Result	Exposure
Diglycidyl Ether of Bisphenol A	LC50	Fish	1.3 mg/l	96 h
	LC50	Daphnia	2.1 mg/l	48 h
Diglycidyl Ether of Bisphenol F	LC50	Fish	1.5 mg/l	96 h
	LC50	Daphnia	1.7 mg/l	48 h
	Chronic NOEC	Daphnia	0.3 mg/l	21 d

Persistence and degradability

No information on the product itself.

Component	Test	Period	Result
Diglycidyl Ether of Bisphenol A	OECD 302B	28 d	12%
Diglycidyl Ether of Bisphenol F	OECD 301F Derived	28 d	5%

Bioaccumulative Potential

No information on the product itself.

Component LogPow BCF Potential	Component	LogPow	BCF	Potential
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Diglycidyl Ether of Bisphenol A	2.64 – 3.78	3-31	Low
Diglycidyl Ether of Bisphenol F	3.232	31	Low
Neopentyl Glycol Diglycidyl Ether	0.23	-	Low

Mobility in Soil

Soil/water partition coefficient (KOC)No information on product itself.

Other adverse effects No known significant effects or critical hazards.

13. Disposal Considerations

Waste from residues/ unused products

The generation of waste should be avoided or minimized wherever possible.

Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Product should not be allowed to enter drains, watercourses or the soil; dispose of this material and its containers in a safe way. Contact supplier if guidance is

required.

Contaminated packaging Dispose of container and unused contents in accordance with federal, state

and local requirements.

14. Transport Information

The data provided in this section is for information only and may not be specific to your package size or mode of transport. You will need to apply the appropriate regulations to properly classify your shipment for transportation.

International Transport Regulations

Regulatory information	UN/NA number	Proper Shipping Name	Classes/*PG	Additional Information
DOT		Non-regulated		
TDG		Non-regulated		
IMO/IMDG	UN3082	Environmentally hazardous substance, liquid, n.o.s. (Bisphenol-A Epichlorohydrin Resin)	Class 9 III	
IATA	UN3082	Environmentally hazardous substance, liquid, n.o.s. (Bisphenol-A Epichlorohydrin Resin)	Class 9 III	
*PG: Packing grou	ıp			

Special precautions for user: Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to

do in the event of an accident or spillage.

15. Regulatory Information

UNITED STATES

U.S. Federal Regulations United States – TSCA 12(b) – Chemical export notification: None Required.

United States – TSCA 5(a)2 – Final significant new use rules: Not Listed.
United States – TSCA 5(a)2 – Proposed significant new use rules: Not Listed.

United States – TSCA 5(e) – Substance consent order: Not listed.

Clean Air Act - Ozone Depleting

Substances (ODS)

Clean Air Act Section 112(b) Hazardous

Air Pollutants (HAPs)

California Prop. 65

None.

None.

WARNING: This product can expose you to chemicals including Oxirane, 2-(chloromethyl)- that is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to

www.P65Warnings.ca.gov.

EPA SARA 302 Extremely Hazardous

Substances

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None required.

EPA SARA 302/304/311/312 Hazardous

Chemicals

United States inventory (TSCA 8b)

Acute Health Hazard

All components are listed or exempted.

CANADA

WHMIS (Canada) Class D-2B: Material causing other toxic effects (Toxic).

Canadian NPRINone required.CEPA Toxic substancesNone required.

INTERNATIONAL REGULATIONS

International Lists Australia inventory (AICS): All components are listed or exempted.

Canada inventory: All components are listed or exempted.

Korea inventory: All components are listed or exempted.

Japan inventory: All components are listed or exempted.

China inventory (IECSC): All components are listed or exempted.

New Zealand inventory (NZIoC): All components are listed or exempted. **Philippines inventory (PICCS):** All components are listed or exempted. **Taiwan inventory (CSNN):** All components are listed or exempted.

16. Other Information, Including Date of Preparation or Last Revision

HMIS Rating



Date of Preparation October 27, 2023

Date of Last Revision March 2, 2023

Revision # 7.0

More Information 1-253-333-8118

The information contained herein is based on the data available to us and is believed to be correct. However, Perma-Chink Systems, Inc. makes no warranty, expressed or implied, regarding the accuracy of these data or the results to be obtained from the use thereof. Perma-Chink Systems, Inc. assumes no responsibility for injury from the use of the product described herein.