

SAFETY DATA SHEET



Issue Date: June 6, 2017

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Version: 2017

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: DuraPatch EPX, Various Colors, Part A

Other Means of Identification

SDS #: F2110A Colors

Recommended Use: Epoxy Patching Material

Restrictions on Use: No Data

Supplier of the Safety Data Sheet including Address:

ChemMasters Inc.
300 Edwards Street
Madison, OH 44057

Telephone Numbers

Company Phone Number

Phone: 800-486-7866, 440-428-2105

Fax: 440-428-7091

Emergency Telephone: ChemTrec 800-424-9300

2. HAZARDS IDENTIFICATION

Emergency Overview

OSHA Hazards:

Harmful if swallowed, harmful if inhaled, causes skin irritation, may cause allergic skin reaction, causes serious eye irritation, may cause respiratory irritation, toxic to aquatic life, toxic to aquatic life with long lasting effects.

GHS Classification:

Acute toxicity, Oral – Category 4

Acute toxicity, Inhalation – Category 4

Skin Corrosion/Irritation: Category 2

Eye damage/eye irritation – Category 2A

Skin sensitization – Category 1

Specific Target Organ toxicity – single exposure: Category 3

Hazardous to the Aquatic Environment – Short Term (Acute) Hazards: Category 2

Hazardous to the Aquatic Environment – Long Term (Chronic) Hazards: Category 2

Label Elements, including precautionary statements

Pictograms:



Signal Word: WARNING

Hazard Statements:

- H302 Harmful if swallowed
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled
- H335 May cause respiratory irritation.
- H401 Toxic to aquatic life
- H411 Toxic to aquatic life with long lasting effects

Precautionary Statement(s)

Prevention:

- P261 Avoid breathing dust/fume/gas/mist/vapours//spray.
- P264 Wash hands and skin thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P217 Use only outdoors or in a well-ventilated area.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response:

- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+P313 If eye irritation persists: Get medical advice or attention.
- P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- P333+P313 If skin irritation or rash occurs: Get medical advice or attention.
- P304+P340+P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P308+P313 IF exposed or concerned: Get medical advice/attention
- P391 Collect Spillage

Storage:

- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up.

Disposal:

- P501 Dispose of contents/container in accordance with local/regional/national regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component

Bisphenol A, epichlorohydrin epoxy resin	CAS#: 25068-38-6	60-70%
Benzyl Alcohol	CAS#: 100-51-6	10-20%
2-ethyl hexyl Glycidyl Ether	CAS#: 2461-15-6	1-10%

Various Pigments Including: ≤5%

Titanium Dioxide	CAS#: 13463-67-7
Iron Oxide Blends:	CAS#: Various (Non-Hazardous)
Carbon Black	CAS#: 1333-86-4
C.I. Pigment Blue 15:2	CAS#: 147-14-8
C.I. Pigment Red 170	CAS#: 2786-76-7
C.I. Pigment Yellow 151	CAS#: 31837-42-0
C.I. Pigment Green 7	CAS#: 1328-53-6

Ingredients not listed on this safety data sheet are considered to be non-hazardous according to OSHA 1910.1200 or are not present above their cutoff levels. Where a range is displayed, the exact percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First Aid Measures

General Advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Inhalation: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. If not breathing, give artificial respiration. Consult a physician.

Eye Contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Ingestion: IF SWALLOWED: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Call a POISON CENTER/doctor if you feel unwell.

Skin Contact: Wash off with soap and plenty of water. If skin irritation or rash occurs: Get medical advice or attention.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water spray, alcohol-resistant foam, dry chemical, or carbon dioxide

Specific Hazards Arising from the Chemical

In case of fire, toxic fumes might be formed.

Hazardous Combustion Products

Carbon dioxide and Carbon monoxide

Protective Equipment and Precautions for Firefighters

Wear self-contained breathing apparatus and full protective gear for firefighting.

Further Information

See Section 7 for safe handling and storage.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

In case of spill wear appropriate personal protective equipment during any cleanup and response activities. Avoid skin contact and inhalation.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and Material for Containment and Cleaning Up

Dike and contain spill with inert absorbent materials. Soak up with inert material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Conditions for Safe Storage, Including any Incompatibilities

General information: Store locked up in a cool place. Keep container tightly closed in a dry and well ventilated place. Keep away from heat (<95 degrees F/<35 degrees C). Do not store below 50°F. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Safe Storage: No Additional Data

Incompatibilities: None known

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Component Exposure Limits:

This material contains no substances with occupational exposure limit values.

Appropriate Engineering Controls

Local Ventilation: Recommended

General Ventilation: Recommended

Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection: Use proper protection – Safety Glasses as a minimum

Skin and Body Protection: Wash at mealtime and end of shift. Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc.). Use chemical protective gloves as a minimum and wash skin promptly upon any skin contact.

Respiratory Protection: Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice. Wash hands before & after breaks and work day.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State

Appearance: Liquid
Color: Various Colors

Odor: Mild Epoxy
Odor threshold: No Data

<u>Property</u>	<u>Value</u>	<u>Remarks – Method</u>
Vapor Pressure	Not Available	
Vapor Density	Not Available	
Relative Density	Not Available	
pH:	Not Relevant	
Melting/Freezing Point	Not Relevant	
Solubility	Not Available	
Evaporation Rate	Not Available	
Flash Point	≥205 Degrees F (>96 Degrees C)	Closed Cup
Flammability Limits	Not Relevant	
Flammability (Solid, gas)	Not Relevant	
Auto Ignition Temperature	Not Available	
Initial Boiling Point/Boiling Range	Not Available	
Decomposition Temperature	Not Available	
Viscosity	Not Available	
Specific Gravity	1.11	Density: 9.31 lb./gal. +/- 0.1

10. STABILITY AND REACTIVITY

Chemical Stability: Stable

Possibility of Hazardous Reactions: No Data Available.

Conditions to Avoid:

Upon prolonged storage the material may crystallize which is reversible. Do not store below 50°F. Store away from heat.

Incompatible Materials: Acids, Amines, Bases and Oxidizing Agents.

Hazardous Decomposition Products: Carbon dioxides, Carbon monoxide, phenolics

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Inhalation, Skin Contact, Eye Contact, Ingestion

Symptoms of Exposure:

Harmful if swallowed, Harmful if inhaled, Causes skin irritation, May cause allergic skin reaction, Causes serious eye irritation.

Numerical measures of toxicity:

Ingredient Epoxy resin, CAS# 25068-38-6

Acute Toxicity – Oral	LD50 1,000 – 5000 mg/Kg Rat
	LD50 500 – 2000 mg/Kg Mouse
Acute Toxicity – Dermal	LD50 > 20,000 – 20,000 mg/Kg Rat
	LD50 > 20,000 mg/Kg Rabbit
	LD50 1,270 mg/Kg Mouse.
Acute Toxicity – Inhalation	No Data

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-Term Exposure

Carcinogenicity: IARC, ACGIH, NTP, OSHA

No components of this product present at levels greater than or equal to 0.1% is identifies as a carcinogen or potential carcinogen.

Specific target organ toxicity: Single exposure – Category 3, Respiratory System,
May cause respiratory irritation.

12. ECOLOGICAL INFORMATION

Eco toxicity: Ingredient, Epoxy Resin

Fish: LC50 1.41 mg/l 96 hr. Oryzias latipes (Japanese Rice Fish); Flathead Minnow LC50 3.1 mg/l 96 hr.
Crustacea: EC50 1.7 mg/l 48 hr.; Aquatic Invertebrates Water Flea (Daphnia magna) EC50 3.6 mg/l 24 hr.

Persistence and Degradability: No Data Available

Bioaccumulation: Concentration: log Kow 2.281 (estimate), BCF 0.56 – 0.67
Bio Resolvability: 0(%) 28 day; Non-degradable

Mobility: No Data Available

Other Adverse Effects: No Data Available

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes: This product is not expected to be a hazardous waste under RCRA. It is however toxic to aquatic life. Dispose of in conformance with all federal, state and local regulations.

Contaminated Packaging: Dispose of as unused material.

14. TRANSPORT INFORMATION

.D.O.T.: Non-Bulk Not Regulated,
Bulk: UN3082, Environmentally Hazardous Substance, Liquid, N.O.S. (Epoxy Resin), 9, III

I.M.D.G.: UN3082, Environmentally Hazardous Substance, Liquid, N.O.S. (Epoxy Resin), 9, III
(Special Precaution: F-A, S-F)

Marine Pollutant: Yes

I.A.T.A.: UN3082, Environmentally Hazardous Substance, Liquid, N.O.S. (Epoxy Resin), 9, III
Cargo Packing Instruction: 964; Passenger Packing Instruction: 964

15. REGULATORY INFORMATION

International Inventories

TSCA: All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

US Federal Regulations

SARA 302: None Known

SARA 311/312 Hazard Categories: Acute Health Hazard, Delayed (Chronic) Health Hazard

SARA 313 Hazard Categories:

None Known

CWA (Clean Water Act): None Known

Supplemental State Compliance Information

California:

Warning: This product may contain trace amounts of a chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth defects or other reproductive harm. **Epichlorohydrin CAS# 106-89-8**

New Jersey Right To Know:

CAS Number	Component Name
100-51-6	Benzyl Alcohol
2461-15-6	2-ethyl hexyl Glycidyl Ether

Pennsylvania Right To Know:

CAS Number	Component Name
100-51-6	Benzyl Alcohol
2461-15-6	2-ethyl hexyl Glycidyl Ether

U.S. EPA Label Information: No Data

16. OTHER INFORMATION

HMIS Classification:

Health hazard:	2
Flammability:	1
Physical Hazards:	0

NFPA Rating:

Health hazard:	2
Fire:	1
Reactivity Hazard:	0

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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 guide 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