

**Safety Data Sheet**  
**Trans-Wrap Apex Epoxy Resin Part A**

**Section 1 Product and Company Identification**

**Product Name:** Trans-Wrap Apex Epoxy Resin Part A  
**Supplier:** NRI 3875 Fiscal Court, Ste #100 Riviera Beach, FL 33404 (561) 683-6992  
**Emergency Phone Number:** 800-535-5053  
**Product Description:** Epoxy solution  
**Product Use:** Intended to repair pipes  
**Chemical Name or Synonym:** N/A

**Section 2 Hazards Identification**

**Classification of the substance or mixture:**

Skin corrosion/irritation – Category 2  
 Eye damage/eye irritation – Category 2A  
 Skin sensitization - Category 1  
 Chronic Aquatic Toxicity – Category 2

**Label Elements:**



**Hazard Statements:**

H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction  
 H319 Causes serious eye irritation  
 H411 Toxic to aquatic life with long lasting effects

**Signal Word:** Warning

**Precautionary Statement:**

P362 - Take off contaminated clothing and wash before reuse  
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection  
 P302 + P352 - IF ON SKIN: Wash with plenty of soap and water  
 P273 - Avoid release to the environment

**Section 3 Composition/ Information on Ingredients**

Chemical Name	CAS-No	Weight %
Phenol-formaldehyde polymer, glycidyl ether	28064-14-4	40 – 60
Bisphenol A/epichlorohydrin epoxy resin	25068-38-6	45 – 65



## Safety Data Sheet Trans-Wrap Apex Epoxy Resin Part A

Trade Secret	N/A	< 1.5
Propane 2,2 bis[p-2,3 epoxypropoxy]phenyl]-polymers	25085-99-8	< 3

*"This material contains additional trade secret components which do not pose a health hazard and can be found on the TSCA inventory or are exempt from the TSCA Inventory requirements under 40 CFR 720.30*

### Section 4 First Aid Measures

#### First Aid Measures for Accidental:

**Eye Contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

**Skin Contact:** Remove contaminated clothing. Wipe excess from skin. Lather with waterless skin cleaner and then wash with warm soap and water. If irritation occurs, get medical attention.

**Ingestion:** Do not induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

**Inhalation** Move to fresh air. If symptoms persist, call a physician.

**Most important symptoms/effects, acute and delayed:** Itching. Rashes. Serious eye irritation or damage.

**Indication of immediate medical attention and special treatment needed:** Treat symptomatically.

### Section 5 Fire Fighting Measures

**Extinguishing Media:** Carbon dioxide, foam, dry chemical, water fog.

**Special Fire Fighting Procedures:** Wear complete fire fighting gear and self-contained breathing apparatus to protect against potential harmful and/or irritating fumes. Use water to keep fire exposed containers cool. Do not use high volume water jet on the fire as this may spread the area of the fire.

**Special Protective Equipment for Fire-fighters:** Use personal protective equipment. Wear self contained breathing apparatus for firefighting if necessary.

**Unusual Fire and Explosion Hazard:** Closed containers exposed to extreme heat may rupture.

**Hazardous Decomposition Materials (Under Fire Conditions):** Combustion products may include, but are not limited to: phenolics, carbon monoxide, carbon dioxide.

### Section 6 Accidental Release Measures

**Personal Precautions, Protective Equipment and Emergency Procedures:** Isolate area. Keep unnecessary and unprotected personnel from entering the involved area. Avoid contact with eyes, skin and clothing. Use gloves and safety glasses. Prevent contamination of soil and water.

**Cleanup and Disposal of Spill:** Stop leak without additional risk. Dike and absorb with inert absorbent material (e.g., sand) and collect in a suitable, closed and labeled container. Wash the spill area with water and detergent. Dispose of in accordance with applicable local and federal environmental control regulations.



## Safety Data Sheet Trans-Wrap Apex Epoxy Resin Part A

### Section 7 Handling and Storage

**Precautions for Safe Handling:** Ventilate work area. Avoid skin contact. Skin contact with hot material may cause thermal burns. Wash skin thoroughly after handling. Launder contaminated clothing before reuse or discard. Never apply a direct flame to any container of product.

**Conditions for safe storage including any incompatibilities:** Store in a cool, dry place with adequate ventilation. Keep in original containers. Store in tightly closed containers to prevent moisture absorption and loss of volatiles. Store away from heat and open flame.

### Section 8 Exposure Controls / Personal Protection

**Exposure Guidelines:** None established.

**Appropriate Engineering Controls:** Ventilation must be adequate for most operations.

**Personal Protective Equipment:**

**Respiratory Protection:** In case of inadequate ventilation wear respiratory protection. Use respirators when exposure to vapors from heated material.

**Eye / Face Protection:** Wear safety glasses with side shields or chemical splash goggles when exposure is more likely.

**Skin Protection:** Wear liquid-proof, chemical resistant gloves (nitrile-butyl rubber, neoprene, butyl rubber or natural rubber) and full body-covering clothing.

**Additional protective measures:** Wash thoroughly after handling. Avoid breathing vapors from heated material. Protective skin cream barriers can be applied to hands in addition to gloves for added protection.

### Section 9 Physical and Chemical Properties

<b>Physical Appearance:</b>	Cornflower blue
<b>Odor:</b>	Mild
<b>Odor Threshold:</b>	No data available
<b>pH:</b>	No data available
<b>Flash Point:</b>	218 °C
<b>Melting Point Range:</b>	No applicable
<b>Boiling point:</b>	No data available
<b>Evaporation rate (ether=1):</b>	No data available
<b>Flammability (solid, gas):</b>	No data available
<b>Flammability Limits in Air:</b>	Not established for this product
<b>Viscosity:</b>	26,500 cPs at 75 °F (Rheometer Method)
<b>Water Solubility:</b>	Insoluble
<b>Solubility in other solvents:</b>	No data available
<b>Vapor Pressure:</b>	No data available
<b>Vapor density (Air=1)</b>	No data available
<b>Relative Density:</b>	1.17
<b>Partition coefficient (n-octanol/water):</b>	No data available
<b>Auto-ignition Temperature:</b>	No data available
<b>Decomposition Temperature:</b>	No data available

**Safety Data Sheet**  
**Trans-Wrap Apex Epoxy Resin Part A**

**Section 10 Stability and Reactivity**

**Reactivity:** Stable

**Chemical Stability:** Stable under standard normal conditions.

**Possibility of Hazardous reactions:** None under normal processing. Hazardous polymerization will not occur by itself.

**Conditions to Avoid:** To avoid thermal decomposition, do not overheat. Incompatible products.

**Incompatible Materials / Chemicals:** Acids. Bases. Strong acids. Strong oxidizing agents. Reacts with amines.

**Hazardous Decomposition Products:** Uncontrolled exothermic reaction of epoxy resin releases carbon monoxide, carbon dioxide, aldehydes.

**Section 11 Toxicological Information**

**Numerical measures of toxicity:**

For Bisphenol A/epichlorohydrin epoxy resin

Acute Oral Toxicity: LD50 (rat): > 5,000 mg/kg

Acute Dermal Toxicity: LD50 (rabbit): 20,000 mg/kg

For Phenol-formaldehyde polymer, glycidyl ether

Acute Oral Toxicity: LD50 (rat): > 2,000 mg/kg

Acute Dermal Toxicity: LD50 (rabbit): 2,000 mg/kg

**Information on the likely route of exposure:**

**Eye contact:** May cause eye irritation. Corneal injury is unlikely.

**Skin contact:** Prolonged contact may cause skin irritation with local redness.

**Inhalation:** No known effect.

**Ingestion:** No data available.

**Symptoms related to the physical, chemical and toxicological characteristics:** No data available

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

Short term exposure: No specific data.

Long term exposure: No specific data

**Section 12 Ecological Information**

**Ecotoxicity Effects:**

**Data for components:**

**Bisphenol A/epichlorohydrin epoxy resin**

Acute LC50 (daphnia magna): 1.3 mg/L

Acute LC50 (fathead minnow): 3.1 mg/L

**Phenol-formaldehyde polymer, glycidyl ether**

Acute EC50 (daphnia magna): 3.5 mg/L

Acute LC50 (Leuciscus idus): 5.7 mg/L

**Propane 2,2 bis[p-2,3 epoxypropoxy]phenyl]-polymers:** Material is moderately toxic to aquatic organisms on an acute basis



## Safety Data Sheet Trans-Wrap Apex Epoxy Resin Part A

(LC50/EC50 between 1 and 10 mg/L in the most sensitive species tested).

Fish Acute & Prolonged toxicity: For similar material: LC50, Oncorhynchus mykiss (rainbow trout), semi-static test, 96h: 2 mg/l

Aquatic Invertebrate Acute Toxicity: EC50, Daphnia (water flea), static test 48h, immobilization; 1.8 mg/l

Aquatic Plant Toxicity: ErC50, Scenedesmus capricornutum (fresh water algae), static test, Growth rate inhibition, 72h: 11mg/l

Toxicity to Microorganisms: IC50; bacteria, 18h: >42.6 mg/l

Aquatic Invertebrate Chronic Toxicity Value: Daphnia magna (water flea), semi- static test, 21d, NOEC: 0.3mg/l.

### **Persistence and degradability:**

**Propane 2,2 bis[p-2,3 epoxypropoxy]phenyl]-polymers:** Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions.

### OECD Biodegradation Tests:

Biodegradation	Exposure Time	Method	10 Day Window
12%	28d	OECD 302B Test	Not applicable

**Bioaccumulative potential:** Bioconcentration potential is moderate.

**Mobility in soil:** No information available.

**Other adverse effects:** No information available.

## **Section 13 Disposal Considerations**

**Waste treatment methods:** Do not dump to ground, sewers or watercourses. Dispose of at a licensed waste disposal facility utilizing methods that are in compliance with all applicable federal, state and local laws regulations. Waste characterization and compliance with applicable laws are the responsibility solely of the waste generator.

**Uncleaned packaging:** Empty containers should be taken to an approved waste handling site for recycling or disposal.

## **Section 14 Transport Information**

### DOT

Not Regulated

### IATA

UN-Number: UN3082

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.

Hazard Class: 9

Packing Group: III

Note: When packed with non-DG materials Special Provision A197 applies for inner container quantities of 5L or less.

ERG Code: 9L

### IMDG/IMO

UN-Number: UN3082





**Safety Data Sheet**  
**Trans-Wrap Apex Epoxy Resin Part A**

**Proper Shipping Name:** Environmentally hazardous substance, liquid, n.o.s.  
**Hazard Class:** 9  
**Packing Group:** III

**Section 15 Regulatory Information**

**SARA Title III Section 311/312 (40CFR370):** Acute health hazard  
**SARA Title III Section 313 (40CFR372):** No reportable components  
**CERCLA Status (40CFR302):** No reportable quantity components  
**OSHA/NTP/IARC Carcinogen status:** Not listed.  
**TSCA Status:** All components are listed on TSCA Inventory or otherwise comply with TSCA requirements.  
**Canada WHMIS Classification:** D2B  
**Chemicals known to the State of California to cause Cancer or Reproductive Toxicity:** This product contains trace amounts of Epichlorohydrin CAS 106-89-8  
**Hazardous Products Act Information:** This product contains the following ingredients which are Controlled Product and/or are on the Ingredient Disclosure List (Canadian HPA Section 13 and 14):  
Propane 2,2 bis[p-2,3 epoxypropoxy]phenyl]-polymers, CAS#: 25085-99-8

**Section 16 Other Information**

**Key Legend Information:**  
N/A – Not Applicable  
ND – Not Determined  
OSHA – Occupational Safety and Health Administration  
NIOSH – National Institute for Occupational Safety and Health

The information contained herein is based on the data available to us and is believed to be accurate. The data is offered in good faith as typical values and not as product specification. The information in this data sheet was compiled from information supplied by the vendors of the components of this compound. NRI makes no warranty either expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. The recommended industrial hygiene and safe handling procedures are believed to be genuinely applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate. NRI assumes no responsibility for injury from the use of the product described herein. The information is intended only to assist in the safe handling of this material.

(R1) Revision date: 04.18.18