

Safety Data Sheet
Trans-Wrap Apex Epoxy Resin Part A

Section 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: Trans-Wrap Apex Epoxy Resin Part A

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use: Intended to repair and protect pipes

Uses advised against: No information available

1.3. Details of the supplier of the safety data sheet

Supplier: NRI
3875 Fiscal Court Suite #100
Riviera Beach, FL 33404. USA.
1- 561 - 683 - 6992

E-mail address: No information available.

1.4. Emergency telephone number

Emergency telephone number: 1 800-535-5053

Section 2. Hazards identification

2.1. Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008 (CLP)

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

Physical hazards: None

2.2 Label elements

Hazard pictograms:



Signal word: Warning

Hazard statements:

H315 Causes skin irritation.
H317 May cause an allergic skin reaction
H319 Causes serious eye irritation

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H411 Toxic to aquatic life with long lasting effects

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

P391 - Collect spillage

2.3. Other information: N/A

Section 3. Composition/ Information on Ingredients

3.1. Substances: Not Applicable

3.2. Mixtures

Component	EC No	CAS #	Weight %	EU-GHS Substance Classification	REACH Number
Phenol-formaldehyde polymer, glycidyl ether	-	28064-14-4	40 – 60	Skin Irrit. 2 (H315) Eye Irrit. 2A (H319) Skin Sens. 1 (H317) Aquatic Chronic 2 (H411)	Not data available
Bisphenol A – Epichlorohydrin polymer	-	25068-38-6	45 – 65	Skin Irrit. 2 (H315) Eye Irrit. 2A (H319) Skin Sens. 1 (H317) Aquatic Chronic 2 (H411)	Not data available
Propane 2,2 bis[p-2,3 epoxypropoxy)phenyl]- polymers	-	25085-99-8	< 3	Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Aquatic Chronic 2 (H411)	Not data available

For the full text of the H-Statements mentioned in this Section, see Section 16

Section 4. First Aid Measures

4.1. Description of first-aid measures

First aid measures for accidental

General advice: If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.

Inhalation Move to fresh air. 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.

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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.

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

Protection of first-aiders: Use personal protective equipment. Avoid contact with skin, eyes and clothing.

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

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

Section 5. Fire Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media: Carbon dioxide, foam, dry chemical, water fog.

Unsuitable extinguishing media: No data available.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: Combustion products may include, but are not limited to: phenols, carbon monoxide, carbon dioxide.

5.3 Advice for firefighters: Wear complete firefighting 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. Closed containers exposed to extreme heat may rupture.

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Protective equipment: Use personal protective equipment (See Section 8) to prevent any contamination of skin, eyes and personal clothing.

Emergency procedures: Remove ignition sources. Provide sufficient ventilation, control dust. Evacuate personnel to safe areas.

6.1.2 For emergency responders: Use appropriate personal protective clothing. Use gloves and safety glasses.

6.2 Environmental precautions: Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Avoid release to the environment.

6.3. Methods and materials for containment and cleaning up

6.3.1 For containment: Cover drains. Prevent contamination of soil and water.

6.3.2 For cleaning up: 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.

6.3.3 Other Information: Clear spills immediately.

6.4 Reference to other sections: See Section 12 for additional information. Dispose of in accordance with applicable local and federal environmental control regulations.

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Section 7. Handling and Storage

7.1 Precautions for safe handling

Handling: Handle in accordance with good industrial hygiene and safety practice. Do not breathe vapors or spray mist. Use only in area provided with appropriate exhaust ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Do not take internally.

Hygiene measures: When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Provide regular cleaning of equipment, work area and clothing. Wash thoroughly after handling.

7.2 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.

7.3 Specific end use(s)

Exposure scenario: No information available.

Other guidelines: No information available

Section 8. Exposure Controls / Personal Protection

8.1 Control parameters

Exposure limits: This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

Derived no effect level: No information available.

Predicted No Effect Concentration (PNEC): No information available.

8.2 Exposure controls

8.2.1 Appropriate engineering controls: Ensure adequate ventilation, especially in confined areas.

8.2.2 Personal protective equipment

8.2.2.1 Eye and face protection: Safety glasses with side-shields. Risk of contact: Tightly fitting safety goggles.

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

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

8.3 Environmental exposure controls: Do not allow material to contaminate ground water system.

Section 9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical State:	Liquid
Appearance:	Cornflower blue
Odour:	Mild
Odour threshold:	No data available

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<u>Property</u>	<u>Values</u>	<u>Remarks-Method</u>
pH:	No data available	None known
Melting point range:	No data available	None known
Boiling point/boiling range:	No data available	None known
Flash Point:	218 °C	No Data Available
Evaporation rate:	No data available	None known
Flammability (solid, gas):	No data available	None known
Upper/lower flammability or explosive limits:	No data available	None known
Vapour pressure:	No data available	None known
Vapour density:	No data available	None known
Relative density:	1.17 at 75 °F	Density Cup Method
Solubilities:	No data available	None known
Partition coefficient (n-octanol/water):	No data available	None known
Auto-ignition temperature:	No data available	None known
Decomposition temperature:	No data available	None known
Viscosity:	26,500 cPs at 75 °F	Rheometer Method
Explosive properties:	No data available	None known
Oxidizing properties:	No data available	None known

9.2 Other information

VOC Content (%):	No data available	None known
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Section 10. Stability and Reactivity

10.1 Reactivity: Stable

10.2 Chemical stability: Stable under normal conditions.

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

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

10.5 Incompatible materials: Acids. Bases. Strong acids. Strong oxidizing agents. Reacts with amines.

10.6 Hazardous decomposition products: Uncontrolled exothermic reaction of epoxy resin releases carbon monoxide, carbon dioxide, phenols.

Section 11. Toxicological Information

11.1 Information on toxicological effects:

Acute toxicity:

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Bisphenol A – Epichlorohydrin polymer	>5,000 mg/kg (rat)	20,000 mg/kg (rabbit)	-
Phenol-formaldehyde polymer, glycidyl ether	>2,000 mg/kg (rat)	2,000 mg/kg (rabbit)	

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

Serious eye damage/irritation: May cause eye irritation. Corneal injury is unlikely.

Inhalation: No known effect.

Ingestion: No data available.

Germ cell mutagenicity: No information available.

Carcinogenicity: No information available.

Reproductive toxicity: No information available.

STOT- single exposure: No information available.

STOT- repeated exposure: No information available

Aspiration hazard: No information 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

12.1 Toxicity: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

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 (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.

12.2 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.



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OECD Biodegradation Tests:

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

12.3 Bioaccumulative potential: Bioconcentration potential is moderate

12.4 Mobility in soil: Adsorbs on soil.

12.5 Results of PBT and vPvB Assessment: No information available.

12.6 Other adverse effects

12.7 Additional information

Section 13. Disposal Considerations

13.1 Waste treatment methods:

13.1.1 Product / Packaging disposal: Dispose of in accordance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Waste codes / waste designation according to LoW: According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

13.1.2 Waste treatment-relevant information: Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

13.1.3 Sewage disposal-relevant information: This product should not be allowed to enter drains, water courses or the soil.

13.1.4 Other disposal recommendations: Dispose of waste and residues in accordance with local authority requirements.

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

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

Hazard Class: 9

Packing Group: III



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Section 15. Regulatory Information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

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 ingredient which are Controlled Product and/or are on the Ingredient Disclosure List (Canadian HPA Section 13 & 14): Propane 2,2 bis[p-2,3 epoxypropoxy]phenyl]-polymers, CAS#: 25085-99-8

Section 16. Other Information

Full text of H-Statements referred to under sections 2 and 3

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H317 - May cause an allergic skin reaction

H411 - Toxic to aquatic life with long lasting effects

Key Legend Information:

N/A – Not Applicable

ND – Not Determined

OSHA – Occupational Safety and Health Administration

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