RESTORE-RITE
"THE RIGHT WAY TO RESTORE WOOD"
www.restore-rite.com

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SAFETY DATA SHEET

STRONGBOND EPOXY WOOD SEALER – PART A

SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form: Mixture
Product Name: STRONGBOND EPOXY WOOD SEALER
Synonyms: Part A - Resin

1.2. Intended Use of the Product

Use of the Substance/Mixture: Part A (resin) of a two-component epoxy repair adhesive; to be used only with corresponding Part B component.

1.3. Name, Address, and Telephone of the Responsible Party

Company
NEW ENTERPRISES, CO.
P.O. Box 11976, San Rafael, CA 94912
(415) 722-9098
www.restore-rite.com

1.4. Emergency Telephone Number

Emergency Number 800-255-3924 VelocityEHS

SECTION 2: HAZARDS IDENTIFICATION

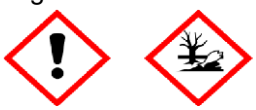
2.1. Classification of the Substance or Mixture

Classification according to Regulation (EC) No 1272/2008

Health hazards:
H315 Skin Irrit. 2 Causes skin irritation
H317 Skin Sens. 1 May cause an allergic skin reaction
H319 Eye Irrit. 2 Causes serious eye irritation
H411 Aquatic Chronic 2 Toxic to aquatic wildlife

2.2 Label Elements

Labelling according to Regulation (EC) No 1272/2008
Pictograms



GHS07 GHS09

Signal Word Warning

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..

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapor/spray.
P391 Collect spillage. Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P302+P352 If on skin: Wash with plenty of water. If skin Irritation or rash occurs: Get medical advice/ attention.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P501 Dispose of contents/container in accordance with local, regional, national, international regulations.

2.3 Other Hazards

None known.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Chemical Characterization - Substances

Ingredient

Name	Product Identifier	%	GHS US classification
2,2'-[(1-methylethylidene)bis (4,1phenyleneoxymethylene)] bisoxirane	(CAS-No.) 1675-54-3	100	R36/38-43-51/53

SECTION 4: FIRST AID MEASURES

4.1 Description of First-Aid Measures

First-Aid Measures General: First aider needs to protect himself. Immediately remove any clothing soiled by the product.
First-aid Measures After Inhalation: Move affected person to fresh air at once. Get medical attention in case of complaints.
First-aid Measures After Skin Contact: Immediately wash skin thoroughly with soap and water, and rinse thoroughly. Consult a doctor if irritation persists after washing.
First-aid Measures After Eye Contact: Rinse opened eye for several minutes under running water. If symptoms persist consult a doctor.

4.2 Most Important Symptoms and Effects Both Acute and Delayed

General Information: Irritant effects. Allergic reactions. Inflammation, skin redness, allergies, and/or dermatitis.The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

4.3 Indication of Any Immediate Medical Attention and Special Treatment

Notes for the doctor: No specific recommendations. If in doubt, get prompt medical attention.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Suitable Extinguishing Media: Extinguish with alcohol-resistant foam, water spray, fire-extinguishing powder. Carbon Dioxide. Use fire-extinguishing methods suitable to surrounding conditions.
Unsuitable Extinguishing Media: Do not use water with full jet.

5.2. Special Hazards Arising from the Substance or Mixture

Specific Hazards: Carbon monoxide (CO), Carbon dioxide (CO2), Phenolics.

5.3. Advice for Firefighters

Protective Actions During Firefighting: Do not inhale explosion gases or combustion gases.
Special Protective Equipment for Firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective fire-fighting clothing (including fire-fighting helmet, coat, trousers, boots, and gloves). Do not inhale explosion gases or combustion gases.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions: Wear protective equipment. Keep unprotected persons away. If possible, stop flow of product.

6.2 Environmental Precautions

Environmental Precautions: Inform respective authorities in case of seepage into waterways or sewage system. Do not allow to enter sewers, surface or ground water.

6.3 Methods and Materials for Containment and Cleaning Up

Methods for Cleaning Up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Allow to solidify. Pick up mechanically.
For large liquid spills (>1 drum), transfer by mechanical means such as vacuum truck to a salvage tank for recovery or safe disposal.

6.4 Reference to Other Sections

See Section 7 for information on safe handling. See Section 8 for information on personal protection. See Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Usage Precautions: Use personal protective equipment as required. Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. Ensure good ventilation/exhaustion at the workplace. Store in tightly closed receptacles.
Information about fire and explosion protection: Normal preventive protection measures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Storage Precautions: Store in a cool location. Provide ventilation for receptacles.
Further Information About Storage Precautions: Protect from heat and direct sunlight.

7.3. Specific End Use(s)

No further relevant information available.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control Parameters

Additional Information About Design of Technical Facilities:
Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit.
If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations.
Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

Ingredients with Limit Values that Require Monitoring at the Workplace: Not required.

Workers:

DNEL (dermal, acute effects systemic): 8.33 mg/kg bw/day

DNEL (inhalation, acute effects systemic): 12.25 mg/m3

DNEL (dermal, chronic effects systemic): 8.33 mg/kg bw/day

DNEL (inhalation, chronic effects systemic): 12.25 mg/m3

Consumers:

DNEL (dermal, acute effects systemic): 3.571 mg/kg bw/day

DNEL (oral, acute effects systemic): 0.75 mg/kg bw/day

DNEL (dermal, chronic effects systemic): 3.571 mg/kg bw/day

DNEL (oral, chronic effects systemic): 0.75 mg/kg bw/day

Predicted No Effect Concentrations (PNEC):

PNEC(fresh water): 0.006 mg/l with assessment factor of 50
PNEC (marine water): 0.0006 mg/l with assessment factor of 500

PNEC (intermittent release): 0.018 mg/l with assessment factor of 100

PNEC (freshwater sediments): 0.996 mg/kg sediment dw

PNEC (marine sediments): 0.0996 mg/kg sediment dw
PNEC (soil): 0.196 mg/kg soil dw
PNEC (sewage treatment plant; STP): 10 mg/l with assessment factor of 10

Personal Protective Equipment:

General Protective and Hygienic Measures:
The usual precautionary measures are to be adhered to when handling chemicals.

Do not eat, drink, smoke or sniff while working.
Keep away from foodstuffs, beverages and feed.
Avoid contact with the eyes and skin.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.

Respiratory Protection:
Not necessary if room is well-ventilated.
Suitable respiratory protective device recommended.
In case of brief exposure or low pollution use respiratory filter device.
In case of intensive or longer exposure use self-contained respiratory protective device.

Personal Protective Equipment:

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Do not eat, drink, smoke or sniff while working.

Keep away from foodstuffs, beverages and feed.

Avoid contact with the eyes and skin.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Be sure to clean skin thoroughly after work and before breaks.

Ensure that washing facilities are available at the work place.

Respiratory protection:

Not necessary if room is well-ventilated.
Suitable respiratory protective device recommended.

In case of brief exposure or low pollution use respiratory filter device.

In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands:

Protective Gloves

The selected protective gloves must satisfy the specifications of standard EN 374 or its equivalent.

The glove material must be impermeable and resistant to the product/ the substance/ the preparation.

Selection of glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves
Butyl rubber, BR
Nitrile rubber, NBR
PVC gloves
Neoprene gloves
Ethyl vinyl alcohol laminate (EVAL)

The selection of suitable gloves does not only depend on the material but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to application.

Penetration Time of Glove Material
The exact breakthrough time must be provided from the glove manufacturer and must be observed.

Eye Protection:

Tightly sealed goggles

Safety glasses with side shield conforming to EN166, ANSI 87.1-2010, or equivalent.

Body Protection:
Use protective suit.
The type of protective equipment must be selected according to the concentration and amount of the dangerous Substance at the specific workplace.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

General Information	
Form	Liquid
Appearance/Color	Clear
Odor	No distinguishable odor
Odor Threshold:	Not applicable; product has no distinguishable odor.
pH (concentrate)k	6-8 (20% in Acetone).
Change in Condition	
Melting Point/Freezing Point	-16 °C (at 1013 hPa)
Boiling Point/Range (°C)	320 °C
Flash Point	266 °C (at 1013 hPa)
Flammability (solid/gas)	Not applicable. Product is a nonflammable liquid.
Ignition Temperature	>266 °C
Decomposition Temperature	>250 °C
Autoignition Temperature	Product is not self-igniting
Explosive Properties	Product does not present an explosion hazard.
Vapor Pressure at 25 °C	4.6E-8 Pa
Density at 25 °C	1.16-1.18 g/cm^3 (ASTM D4052)
Relative Density	1.16-1.18 g/cm^3 ($H_2$0=1)
Vapor Density at 25 °C	<1 g/cm^3 (Air=1)
Evaporation Rate	Not applicable. Product is not evaporative.
Solubility in/Miscibility with Water	At 20 °C: 6.9 mg/1
Partition Coefficient	n-octanol/water: 3.242 log POW
Viscosity	100 CPs
Dynamic Viscosity	8000-11000 mPa.s@25 °C (BE-186 Series) 11000-15000 mPa.s@25 °C (BE-188 Series)
Kinematic Viscosity	6800-1000 cst.@25 °C (BE-186 Series) 10000-13000 cst.@25 °C (BE-188 Series)

9.2 Other Information

None

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity: When properly handled and stored, no dangerous reaction is known.

10.2 Chemical Stability: Product is stable under prescribed use and storage.

Thermal Decomposition/Conditions to be avoided:

Avoid temperature above 300 ℃

Potentially violent decomposition can occur above 350 °C

10.3 Possibility of Hazardous Reactions:

Reacts with acids, alkalis and oxidizing agents.

Reacts with amines.

Masses of more than one pound (0.5 kg) of product plus an aliphatic amine will cause irreversible polymerization with considerable heat build-up.

10.4 Conditions to Avoid: No further relevant information available.

10.5 Incompatible Materials: No further relevant information available.

10.6 Hazardous Decomposition Products:

Phenol

Carbon Monoxide (CO) and Carbon Dioxide (CO^2)

Decomposition products depend upon temperature, air supply and the presence of other materials.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

Acute toxicity: Not classified based on available data.

LD/LC50 values relevant for classification:

1675-54-3 2,2'-[1- methylethylidene]bis (4,1phenyleneoxymethylene)] bisoxirance

Oral	LD50 >2000 mg/kg (rat)
Dermal	LD50 >2000 mg/kg (rat)

Skin corrosion/irritation:

Causes skin irritation.

Rabbit: irritating to the skin (OECD 404)

Serious eye damage/eye irritation:

Causes serious eye irritation.

Rabbit: irritating to the eye (OECD 405)

Respiratory or skin sensitization:

Mouse (Local Lymph Node Assay): Sensitizing to the skin (OECD 429)

May cause an allergic skin reaction.

Guinea Pigs: Sensitizing to the skin (OECD 429)

Germ Cell Mutagenicity:

Not classified based on available data.

Various experiments have shown mixed results (limited mutagenic effects in some while no mutagenic effect in others)

Carcinogenicity: Not classified based on available data.
Reproductive Toxicity: Not classified based on available data.
Specific Target Organ Toxicity - Single Exposure (STOT SE): Not classified based on available data.
Specific Target Organ Toxicity - Repeated Exposure (STOT RE): Not classified based on available data.
Aspiration Hazard: Not classified based on available data.
Primary Irritant Effect:
Skin corrosion/irritation
Causes skin irritation
Serious Eye Damage/Irritation:
Causes serious eye irritation
Respiratory or Skin Sensitization:
May cause an allergic skin reaction.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic Toxicity

Toxic to aquatic life with long-lasting effects.

1675-54-3 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane

EC50/48h (static)	9.4 mg/l (algae) ((EPA-660/3-75-009))
LC50/96h	1.2 mg/l (fish) (EPA-660/3-75-009, semi-static)
NOEC	4.2 mg/l (algae) (EPA-660/3-75-009, 72h)
	0.3 mg/l (invertebrate) (OECD 211, semi-static, 21d)
IC50	>100 mg/l (microorganism) (3h)

12.2 Persistence and degradability

Not easily biodegradable

Degradation : 12% (28d, OECD 302B)
The rates of hydrolysis (OECD 211) : 117 h at 25 °C

12.3 Bioaccumulative Potential

Bioconcentration Factor (BCF) = 31
Partition coefficient, n-octanol/water (log Kow) : 3.242 @ 25 °C (est.) @ 30 °C

12.4 Mobility in Soil

Partition coefficient, soil organic carbon/water (Koc) : 445 at 20 °C

Ecotoxical Effects
Toxic for fish

Additional ecological information

Water hazard class 2 (German regulation) (Self-assessment): hazardous for water

Do not allow product to reach drains, waterway, or groundwater.
Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms

12.5 Results of PBT and vPvB Assessment

Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII

12.6 Other Adverse Effects

No further relevant information available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

Recommendation

Recover or recycle if possible.
Contact waste processors for recycling information.
Hand over to hazardous waste disposers.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Any disposal method should also comply with national, regional, provincial, and local laws.

Uncleaned Packaging

Recommendation

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.
Disposal must be made according to official regulations.

SECTION 14: TRANSPORT INFORMATION

Label 9
Packing group
ADR, IMDG, IATA III
Environmental Hazards
Marine pollutant: Yes
Symbol (fish and tree)
Special Marking (ADR): Symbol (fish and tree)
Special Marking (IATA): Symbol (fish and tree)
Special Precautions for User Warning: Miscellaneous dangerous substances and articles.
Danger Code (Kemler): 90
EMS Number: F-A, S-F
Transport/Additional Information:
ADR
Limited Quantities (LQ) 5L
Transport Category 3

Tunnel Restriction Code E
UN "Model Regulation" UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID**,** N.O.S. (Reaction Product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight 700), 9, III

SECTION 15: REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations/Legislation Specific for Substance or Mixture

Directive 2012/18/EU

Qualifying quantity (tons) for the application of lower-tier requirements: 200 t
Qualifying quantity (tons) for the application of upper-tier requirements: 500 t
REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
Additional classification according to Decree on Hazardous Materials, Annex II: None

Status of global inventories:
All component(s) within this product is listed or exempted from the following country's chemical inventory:
Vietnam – NCI
USA – TSCA
Australia – AICS
Canada – DSL
China – IECSC
EU – EINECS/NLP
Japan – ENCS
Korea – KECI
New Zealand – NZIoC
Philippines – PICCS
Taiwan – TCSI

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: ADDITIONAL INFORMATION

Also refer to the Safety Data Sheet for StrongBond Epoxy Wood Sealer/Part B, another component of this product.

The information in this Safety Data Sheet is intended to describe the product in terms of health and safety requirements only. No liability is accepted for any injury, loss, and damage or cost arising directly or indirectly from usage since customer's treatment is necessarily out of our control.

Waste Disposal:	Dispose in accordance with local, state/provincial, national and international regulations.
Date Prepared:	October 2022 Technical Services Department

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