

**SAFETY DATA SHEET
LAYUP & LAMINATING EPOXY (PART B)**

SECTION 1 - IDENTIFICATION

1.1. Product identifier

Product Identity Layup & Laminating Epoxy (Part B)

Alternate Names Layup & Laminating Epoxy (Part B)

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

Intended use See Technical Data Sheet.

Application Method See Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet

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FOR CHEMICAL EMERGENCY CALL INFOTRAC - Day or Night **1-800-535-5053**

Spill, Leak, Fire, Exposure or Accident Outside the United States call Collect 1-352-323-3500

Date of Revision: 04/28/2016

SECTION 2 - HAZARD(S) IDENTIFICATION

2.1. Classification of the substance or mixture

Skin Irrit. 2;H315 Causes skin irritation.
Eye Irrit. 2;H319 Causes serious eye irritation.
Skin Sens. 1;H317 May cause an allergic skin reaction.

2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.



Warning

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

[Prevention]:

P261 Avoid breathing dust / fume / gas / mist / vapors / spray.

P264 Wash thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves / eye protection / face protection.

[Response]:

P302+352 IF ON SKIN: Wash with plenty of soap and water.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do -continue rinsing.

P313 Get medical advice / attention.

P321 Specific treatment (see information on this label).
 P333+313 If skin irritation or a rash occurs: Get medical advice / attention.
 P337+313 If eye irritation persists: Get medical advice / attention.
 P362 Take off contaminated clothing and wash before reuse.
 P363 Wash contaminated clothing before reuse.

[Storage]:

No GHS storage statements

[Disposal]:

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

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
OXATRICYCLO[4.1.1.02.4]OCTANE, 2,7,7-TRIMETHYL CAS Number: 0001686-14-2	<50	Not Classified	[1]
Epoxidised soya oil CAS Number: 0008013-07-8	<50	Not Classified	[1]
Neopentyl glycol diglycidyl ether CAS Number: 0017557-23-2	<50	Skin Irrit. 2;H315 Skin Sens. 1;H317	[1]
Diglycidyl ether of bisphenol A CAS Number: 0025068-38-6	<50	Eye Irrit. 2;H319 Skin Irrit. 2;H315 Skin Sens. 1;H317 Aquatic Chronic 2;H411	[1]
PHENOL, 2,2'-METHYLENEBIS-, POLYMER WITH (CHLOROME CAS Number: 0055492-52-9	<50	Skin Irrit. 2;H315 Skin Sens. 1;H317 Eye Irrit. 2;H319	[1]

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

*The full texts of the phrases are shown in Section 16.

SECTION 4 - FIRST AID MEASURES

4.1. Description of first aid measures

General

In all cases of doubt, or when symptoms persist, seek medical attention.

Inhalation

Never give anything by mouth to an unconscious person.

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

Eyes	Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.
Skin	Promptly wash with mild soap and water for at least 15 minutes while removing contaminated clothing and shoes. Launder clothing before reuse and discard contaminated leather articles. Get medical attention if swelling or reddening occurs.
Ingestion	If conscious, give large quantities of water. Do not induce vomiting. Vomiting will cause further damage to the throat. Dilute by giving water or milk to drink if victim is conscious. Get medical attention immediately. Never give anything by mouth to an unconscious person. Call a physician.
4.2. Most important symptoms and effects, both acute and delayed	
Overview	SENSITATION: Prolonged or repeated exposure may cause asthma and skin sensitization or other allergic response. OVEREXPOSURE EFFECTS: Irritation, sensitization and dermatitis. MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Allergy, eczema or skin conditions. See section 2 for further details.
Eyes	Causes serious eye irritation.
Skin	May cause an allergic skin reaction. Causes skin irritation.

SECTION 5 - FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Carbon dioxide, foam, dry chemical

5.2. Special hazards arising from the substance or mixture

Decomposition and combustion products may be toxic.

Hazardous decomposition: Decomposition may produce carbon monoxide, carbon dioxide, Aldehydes, oxides of nitrogen.

Avoid breathing dust / fume / gas / mist / vapors / spray.

5.3. Advice for fire-fighters

Use self-contained breathing apparatus. Cool fire-exposed containers with water.

ERG Guide No. ---

SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

Decomposition and combustion products may be toxic.

6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods and material for containment and cleaning up

Decomposition and combustion products may be toxic.

Avoid all personal contact. Take up with absorbent material. Shovel into closable containers. Flush contaminated area with water.

SECTION 7 - HANDLING AND STORAGE

7.1. Precautions for safe handling

See section 2 for further details. -[Prevention]:

7.2. Conditions for safe storage, including any incompatibilities

May cause allergic skin reaction.

Avoid contact with eyes, skin or clothing.

Avoid breathing vapor, mist or spray.

Use with good ventilation.

Wash after handling, and before eating, drinking, smoking or using toilet facilities.

Re-seal partly used containers.

Ensure that all containers are properly labeled and/or stored away from children to prevent accidental ingestion.

Store in cool, dry area with adequate ventilation in closed containers, away from open flames and high temperatures.

KEEP OUT OF THE REACH OF CHILDREN

Incompatible materials: Incompatible with strong oxidizing agents, mineral acids (E.G. H₂SO₄, HCL, HNO₃, HClO₄) and epoxy resins under uncontrolled conditions.

See section 2 for further details. -[Storage]:

7.3. Specific end use(s)

No data available.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION
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8.1. Control parameters**Exposure**

CAS No.	Ingredient	Source	Value
0001686-14-2	OXATRICYCLO[4.1.1.02,4]OCTANE, 2,7,7-TRIMETHYL-	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
0008013-07-8	Epoxidised soya oil	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
0017557-23-2	Neopentyl glycol diglycidyl ether	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit

CAS No.	Ingredient	Source	Value
0025068-38-6	Diglycidyl ether of bisphenol A	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
0055492-52-9	PHENOL, 2,2'-METHYLENEBIS-, POLYMER WITH (CHLOROME	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit

Carcinogen Data

CAS No.	Ingredient	Source	Value
0001686-14-2	OXATRICYCLO [4.1.1.02,4]OCTANE, 2,7,7-TRIMETHYL-	OSHA	Select Carcinogen: No
		NTP	NTP Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0008013-07-8	Epoxidised soya oil	OSHA	Select Carcinogen: No
		NTP	NTP Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0017557-23-2	Neopentyl glycol diglycidyl ether	OSHA	Select Carcinogen: No
		NTP	NTP Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0025068-38-6	Diglycidyl ether of bisphenol A	OSHA	Select Carcinogen: No
		NTP	NTP Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0055492-52-9	PHENOL, 2,2'-METHYLENEBIS-, POLYMER WITH (CHLOROME	OSHA	Select Carcinogen: No
		NTP	NTP Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;

8.2. Exposure controls

Respiratory

Use NIOSH approved respirator suitable for organic vapors, if required.

Eyes

Wear splash-proof chemical goggles or safety spectacles with side shields.

Skin

Wear impervious gloves, neoprene or rubber.

Engineering Controls

Good general mechanical ventilation and local exhaust.

Other Work Practices Wear appropriate equipment to prevent eye or skin contact. Use of barrier cream recommended. Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. -[Prevention]:

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colorless medium-viscosity liquid
Odor	Mild
Odor threshold	Not determined
pH	Not Measured
Melting point / freezing point	Not Measured
Initial boiling point and boiling range	>200°C
Flash Point	>200°F
Evaporation rate (Ether = 1)	Not Measured
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	Lower Explosive Limit: Not Measured Upper Explosive Limit: Not Measured
Vapor pressure (Pa)	Not Measured
Vapor Density	Not Measured
Specific Gravity	1.1
Solubility in Water	Insoluble
Partition coefficient n-octanol/water (Log Kow)	Not Measured
Auto-ignition temperature	Not Measured
Decomposition temperature	>200°C
Viscosity (cSt)	Not Measured

9.2. Other information

No other relevant information.

SECTION 10 - STABILITY AND REACTIVITY

10.1. Reactivity

Hazardous Polymerization will not occur unless exposed to heat above 200 Centigrade.

10.2. Chemical stability

Stable under normal circumstances.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Avoid exposure to elevated temperatures and strong acids or bases in bulk

10.5. Incompatible materials

Incompatible with strong oxidizing agents, mineral acids (E.G. HNO₃, HClO₄) and strong organic acids or bases under uncontrolled conditions.

10.6. Hazardous decomposition products

Decomposition may produce carbon monoxide, carbon dioxide, Aldehydes, oxides of nitrogen.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute toxicity

Based on the properties of the epoxy constituents and considering toxicological data on similar preparations this preparation may be an irritant and a skin and respiratory sensitizer. Low molecular weight epoxy constituents are irritating to eyes, mucous membranes and skin. Repeated skin contact may lead to irritation and sensitization, possibly with cross-sensitization to other epoxies. Skin contact with the preparation and exposure to spray mist and vapor should be avoided.

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
OXATRICYCLO[4.1.1.02,4] OCTANE, 2,7,7-TRIMETHYL- (1686-14-2)	No data available	No data available	No data available	No data available	No data available
Epoxidised soya oil -(8013-07-8)	21,000.00, Rat - Category: NA	2,000.00, Rabbit - Category: 4	No data available	No data available	No data available
Neopentyl glycol diglycidyl ether -(17557-23-2)	4,500.00, Rat - Category: 5	No data available	No data available	No data available	No data available
Diglycidyl ether of bisphenol A - (25068-38-6)	> 5,000.00, Rat - Category: NA	20,000.00, Rabbit - Category: NA	No data available	No data available	No data available
PHENOL, 2,2'-METHYLENEBIS-, POLYMER WITH (CHLOROME - (55492-52-9)	No data available	No data available	No data available	No data available	No data available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Category	Hazard Description
Acute toxicity (oral)	--	Not Applicable
Acute toxicity (dermal)	--	Not Applicable
Acute toxicity (inhalation)	--	Not Applicable
Skin corrosion/irritation	2	Causes skin irritation.
Serious eye damage/irritation	2	Causes serious eye irritation.
Respiratory sensitization	--	Not Applicable
Skin sensitization	1	May cause an allergic skin reaction.
Germ cell mutagenicity	--	Not Applicable
Carcinogenicity	--	Not Applicable

Classification	Category	Hazard Description
Reproductive toxicity	--	Not Applicable
STOT-single exposure	--	Not Applicable
STOT-repeated exposure	--	Not Applicable
Aspiration hazard	--	Not Applicable

SECTION 12 - ECOLOGICAL INFORMATION

12.1. Toxicity

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and GHS and is not classified as dangerous for the environment, but contains substance(s) dangerous for the environment. See section 3 for details

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
OXATRICYCLO[4.1.1.02,4]OCTANE, 2,7,7-TRIMETHYL-(1686-14-2)	Not Available	Not Available	Not Available
Epoxidised soya oil -(8013-07-8)	900.00, Leuciscus idus	100.00, Daphnia magna	8.00 (72 hr), Scenedesmus subspicatus
Neopentyl glycol diglycidyl ether -(17557-23-2)	Not Available	Not Available	Not Available
Diglycidyl ether of bisphenol A -(25068-38-6)	3.10, Pimephales promelas	1.40, Daphnia magna	Not Available
PHENOL, 2,2'-METHYLENEBIS-, POLYMER WITH (CHLOROME -(55492-52-9)	Not Available	Not Available	Not Available

12.2. Persistence and degradability

There is no data available on the preparation itself.

12.3. Bioaccumulative potential

Not Measured

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No data available.

SECTION 13 - DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

SECTION 14 - TRANSPORT INFORMATION

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
14.1. UN number	Not Applicable	UN3082	Not Regulated
14.2. UN proper shipping name	Not Regulated	Environmentally hazardous substance, liquid, nos, (Bisphenol-A epoxy resin)	Not Regulated
14.3. Transport hazard class(es)	DOT Hazard Class: Not Applicable	IMDG: 9	Air Class: Not Applicable
14.4. Packing group	Not Applicable	Sub Class: Not Applicable	
14.5. Environmental hazards		III	Not Applicable
IMDG	Marine Pollutant: Yes		
14.6. Special precautions for user	No further information		

SECTION 15 - REGULATORY INFORMATION

Regulatory Overview	The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.
Toxic Substance Control Act (TSCA)	All components of this material are either listed or exempt from listing on the TSCA Inventory.
WHMIS Classification	D2B
US EPA Tier II Hazards	Fire: No Sudden Release of Pressure: No Reactive: No Immediate (Acute): Yes Delayed (Chronic): No

EPCRA 311/312 Chemicals and RQs:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 302 Extremely Hazardous:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 313 Toxic Chemicals:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 -Carcinogens (>0.0%):

1-CHLORO-2,3-EPOXY PROPANE

Proposition 65 -Developmental Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 -Female Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 -Male Repro Toxins (>0.0%):

1-CHLORO-2,3-EPOXY PROPANE

New Jersey RTK Substances (>1%) :

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Pennsylvania RTK Substances (>1%) :

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

SECTION 16 - OTHER INFORMATION

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

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.

The information on this Safety Data Sheet is believed to be accurate and is the best information available to the manufacture. This document does not purport to be all-inclusive and is intended only as a guide to the appropriate precautions for handling a chemical by a person trained in chemical handling. It does not represent any guarantee of the properties of the product. The manufacture makes no warranty of merchantability, fitness for a particular purpose or any other warranty, expressed or implied with respect to such information of the product to which it relates, and we assume no liability resulting from the use or handling of the product to which this SDS relates. Users and handlers of this product should make their own investigations to determine the suitability of the information provided herein for their own purposes.

FOR YOUR PROTECTION:

The continuing decay of our society brings you the following:

The following pertains to all of this manufactures products, including this one, and any paper upon which this may be printed:

California State Product Liability Warning (Business and Professions Code, Section 1714.45): This product is inherently unsafe. It cannot be made safe.

This was known as the "Willie Brown Law", passed by him in his last days as Speaker of the California legislature, that exempted ordinary consumer products such as butter, eggs tobacco and any other consumer product that wished to be, from product liability suits in the State of California.

California State Health & Safety Code Section 25249.6: All paper products inherently contain detectable levels of formaldehyde. Therefore, under this Code Section and as required by law, it must be stated that detectable amounts of chemicals known to the State of California to cause cancer, birth defects or other reproductive harm may be found in the containers, paper labels or packing materials. This was the result of Proposition 65 in California, some decades back, that sought to define in law, regardless of scientific fact, anything having any hazard at all as having an equal hazard in any lesser concentration, and if it became invisible, it magically ceased to be hazardous at all; bad science, but a California State law ever since.

Revision: 04/28/2016

FOR FURTHER INFORMATION, PLEASE CONTACT: The Rot Doctor

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