



# SAFETY DATA SHEET

Date of Issue: 05/2/2017  
Rev/Date No: 01 09/2/2020

## **SECTION 1: IDENTIFICATION**

Product Name: E-PLUS PART B

Relevant identified uses of the substance

Product Use: Epoxy amine mixture curing agent.

Supplier: Conley Composites  
4544 Broadmoor Ave.  
Kentwood, MI 49512 USA  
Tel: 1-616-512-8000  
Fax: 1-616-512-8001

Emergency Telephone Number: PERS  
1-800-633-8253

## **SECTION 2: HAZARDS IDENTIFICATION**

Hazardous Classification Skin Sens. 1 H317 May cause an allergic skin reaction  
Eye Dam: H318 Causes serious eye irritation

Signal Words Danger



Pictogram(s) GHS05 GHS07 GHS09

Hazard Statement(s) H317 May cause an allergic skin reaction  
H318 Causes serious eye irritation

Precautionary Statement(s)	P260	Do not breathe vapors
	P280	Wear protective gloves/eye protection
	P363	Wash contaminated clothing before reuse
	P305+P351+P338	Remove contact lenses, Rinse cautiously with water for several minutes.
	P333+ P313	If skin irritation or rash occurs: Get medical advice/attention
	P337+P313	None of the ingredients are considered to be either PBT or vPvB

### **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Substance(s): Mixture

Product Name: E-PLUS PART B

Ingredient Name	%	CAS Number
4,4'-Methylenebiscyclohexanamine	50-75%	1761-71-3
Epoxy polyamine adduct	25-50%	Proprietary
Diethylenetriamine	5-25%	111-40-0

Any concentration shown as a range is to protect confidentially and or due to batch variation

### **SECTION 4: FIRST-AID MEASURES**

Cured thermoset resin products do not pose any significant health hazards related to inhalation, skin contact, eye contact or ingestion unless the article is disturbed via abrading or cutting the product.

Description of necessary first aid measures:

Eye Contact	Remove contact lenses, irrigate copiously with clean, fresh water for at least 20 minutes. If irritation develops or persists, seek medical attention.
Inhalation	Move to fresh air. If difficulty in breathing or respiratory irritation; seek medical attention. If breathing has stopped; seek immediate medical attention, provide artificial respiration or oxygen by trained personnel.
Skin Contact	Wash affected area thoroughly with soap and water for at least 20 minutes. If irritation develops or persists; seek medical attention.
Ingestion	Do not induce vomiting unless directed by medical personnel. If symptoms persist; seek medical attention. Rinse mouth and then drink plenty of water

## **SECTION 5: FIRE-FIGHTING MEASURES**

Extinguishing Media	Carbon Dioxide, Foam, Dry Chemical, Water fog
Specific Hazards Arising From the Chemical	Avoid generating dust; fine dust particles disperse into the air in sufficient concentration and in the presence of an ignition source is a potential dust explosion hazard.  In the event combustions occurs it may emit toxic fumes or nitrous oxides.
Special Protective Actions For Fire-Fighters	Fire-Fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) and turnout gear

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

Personal Precautions, Protective Equipment & Emergency Procedures	Wear appropriate personal protective equipment (PPE) and clothing to reduce or eliminate contact.
Environmental Precautions	Do not allow product to reach sewage system or any water course. Do not allow to penetrate the ground/soil.
Methods & Materials for Containment & Clean Up	Clean the affected area carefully: suitable cleaners is denatured alcohol. Ensure adequate ventilation. Dispose contaminated materials as waste according to item 13

## **SECTION 7: HANDLING & STORAGE**

Precautions for Safe Handling	Use in well ventilated area. Do not smoke
Conditions for Safe Storage	Store away from foodstuffs. Protect from heat and direct sunlight

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

<b>Ingredient Name</b>	<b>Exposure Limits (8hrs TWA)</b>
Diethylenetriamine(DETA)	1ppm
<b>Ingredient Name</b>	<b>Exposure Limits (8 hrs TWA)</b>
4,4 Methylenebisyclohexamine	No data available
<b>Ingredient Name</b>	<b>Exposure Limits (8 hrs TWA)</b>
Epoxy Polyamine Adduct	No data available

Appropriate Engineering Controls Provide adequate general ventilation to control airborne concentrations to below occupational exposure limit values.

Personal Protective Equipment Eye protection with side shields (e.g., ANSI Z87, EN166)

Skin protection such as gloves or clothing to minimize or eliminate skin contact.

General protective and hygienic measures for handling chemicals should be followed. Do not eat, drink, smoke or sniff while working. Do not inhale gases/fumes. Avoid contact with the eyes and skin. Clean skin thoroughly immediately after handling the product. Ensure that washing facilities are available at the work place. Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work.

Breathing equipment is not necessary if room is well-ventilated.

Avoid direct contact with the chemical. Recommended material of gloves: Nitrile Rubber, Recommended thickness of the material:  $\geq 0.4\text{mm}$ , the exact breakthrough time of the glove material has to be found out by the manufacturer and has to be observed.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Paste Black is standard
Upper/Lower Flammability or Explosive Limits	No Data
Odor	Mild Amine odor
Vapor Pressure	CA. 1mm Hg @ 20 Degrees C
Odor Threshold	No data
Vapor Density (air = 1)	No data
pH	Alkaline
Relative Density	No Data
Melting Point/Freezing Point	No Data
Solubility	Insoluble
Initial Boiling Point and Boiling Range	220-230 Degrees C at standard conditions
Flash Point	>450 Degrees F/ 230 Degrees C
Evaporation Rate	100 Degrees C
Flammability (solid, gas)	No Data
Partition Coefficient: n-otanol/water	No Data
Auto-Ignition Temperature	Product is not selfigniting
Viscosity	No Data
Oxidizing	No Data

## **10. STABILITY AND REACTIVITY**

Reactivity	No data available
Chemical Stability	The product is stable
Possible Hazardous Reactions	Hazardous reactions will not occur
Conditions to Avoid	Excessive heat
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide, aldehydes, chlorine, nitric acid, ammonia, nitrogen oxide, nitrosamine

## **11. TOXICOLOGICAL EFFECTS**

Acute Toxicity	No data on the product itself
Skin Corrosion/Irritation	Acute skin irritation
Serious Eye Damage/Irritation	Severe eye irritation
Respiratory or Skin Sensitization	May cause sensitization by inhalation and skin contact
Germ Cell Mutagenicity	Not mutagenic in AMES test
Carcinogenicity	No data on the product itself
Reproductive Toxicity	No data on the product itself
STOT-Single Exposure	No data on the product itself
STOT-Repeated Exposures	No data on the product itself
Aspiration Hazards	No data on the product itself

## **12. OTHER INFORMATION**

Legend to abbreviation and acronyms used

ANSI- American Nation Standards Institute

NIOSH- National Institute for Occupational Safety and Health

vPvB- very Persistent and very Bio accumulative

PBT- Persistent Bio accumulative and Toxic

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

## **13. DISPOSAL CONSIDERATIONS**

This product should not be allowed to enter drains, water courses, or the soil; dispose of the material and its container in a safe way. Dispose of container and unused contents in accordance with federal, state and local requirements.

#### **14. TRANSPORTATION INFORMATION**

##### DOT

UN/ID no. : UN 3259  
Proper shipping name : Amines, solid, corrosive,  
n.o.s.,(methylenebis(cyclohexyl)amine, 4,4')  
Class or Division : 8  
Packing Group : II  
Label(s) : 8  
Marine Pollutant : No

##### IATA

UN/ID no. : UN 3259  
Proper shipping name : Amines, solid, corrosive,  
n.o.s.,(methylenebis(cyclohexyl)amine, 4,4')  
Class or Division : 8  
Packing Group : II  
Label(s) : 8

##### IMDG

UN/ID no. : UN 3259  
Proper shipping name : Amines, solid, corrosive,  
n.o.s.,(methylenebis(cyclohexyl)amine, 4,4')  
Class or Division : 8  
Packing Group : II  
Label(s) : 8

##### TDG

UN/ID no. : UN 3259  
Proper shipping name : Amines, solid, corrosive,  
n.o.s.,(methylenebis(cyclohexyl)amine, 4,4')  
Class or Division : 8  
Packing Group : II  
Label(s) : 8

## **15. REGULATORY INFORMATION**

TSCA 12(b) component(s) : none

29 CFR 1910.1 1 200 Hazard Class(es) : USA TSCA Notification included on inventory

EPA SARA Title III 312 (40 CFR 370) : None above 'de minimus' level

US California Safe Drinking Water & Toxic Enforcement Act (Proposition 65):

This product does not contain any chemicals known to the State of California to cause cancer, birth defects or any other harm.

## **16. OTHER INFORMATION**

Date of Issue: 05/2/2017

Rev/Date No: 01 09/2/2020

Legend to abbreviation and acronyms used

ANSI- American Nation Standards Institute

NIOSH- National Institute for Occupational Safety and Health

vPvB- very Persistent and very Bio accumulative

PBT- Persistent Bio accumulative and Toxic

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.