



# SAFETY DATA SHEET

## SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT

**Product Name:** Epoxy Bond Kit- Part B  
**Product Number:** H1917, T400-0979, T400-1190  
**Intended Use:** Epoxy Resin

### COMPANY IDENTIFICATION

**Supplier:** Chance Company  
 210 North Allen Street  
 Centralia, Missouri U.S.A.

**Phone Number:** (573) 682-8465  
**24 Hour Emergency (INFOTRAC):** (800) 535-5053 (*US and Canada*)  
 (352) 323-3500 (*International*)

## SECTION 2 HAZARDS IDENTIFICATION

### CLASSIFICATION

Health	Environmental	Physical
<ul style="list-style-type: none"> <li>• Skin corrosion/irritation – Category 1B</li> <li>• Skin sensitization - Category 1</li> <li>• Serious eye damage/eye irritation, Category 1</li> <li>• Acute toxicity inhalation – Category 4</li> </ul>	<ul style="list-style-type: none"> <li>• Acute aquatic hazard – Category 3</li> <li>• Chronic aquatic hazard – Category 3</li> </ul>	No classifiable hazards

### LABELLING

#### Symbols:



**Signal Word:** Danger

#### Hazard Statements

- H314 - Causes severe skin burns and eye damage.
- H317 - May cause an allergic skin reaction.
- H318 - Causes serious eye damage.
- H332 - Harmful if inhaled.
- H402 - Harmful to aquatic life
- H412 - Harmful to aquatic life with long lasting effects.

#### Precautionary Statements

- P260 - Do not breathe dust, fume, mist, spray, vapors.
- P261 - Avoid breathing dust, fume, gas, mist, vapors, spray.
- P264 - Wash hands, forearms, face and clothing thoroughly after handling.
- P271 - Use only outdoors or in a well-ventilated area.
- P272 - Contaminated work clothing must not be allowed out of the workplace
- P273 - Avoid release to the environment.
- P280 - Wear protective gloves, protective clothing, eye protection.
- P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting
- P302+P352 - If on skin: Wash with plenty of soap and water.
- P303+P361+P353 - If on skin (or hair): Take off immediately



	<p>all contaminated clothing. Rinse skin with water/shower</p> <ul style="list-style-type: none"> <li>• P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing</li> <li>• P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>• P312 - Call a poison center or doctor if you feel unwell</li> <li>• P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.</li> <li>• P363 - Wash contaminated clothing before reuse.</li> <li>• P405 - Store locked up.</li> <li>• P501 - Contact a local certified and licensed waste disposal contractor or collection site to ensure proper and legal disposal.</li> </ul>
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**Other Hazards:**

No additional information available.

**Unknown Acute Toxicity (GHS-US):**

Not applicable

**SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**

This product contains particulates (silica, calcium, pigments, etc.) that are blended into a liquid and pose no hazard as supplied. They may however be released if final product is cured and hardened then machined, such as; grinding, sanding, cutting, etc.

**MIXTURES.**

Name	CAS#	Wt. Percentage*	Classification (GHS-US)
Fiberglass	65997-17-3	67 - 69	Carcinogen. 2, H351
Diethylenetriamine	111-40-0	15 - 17	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 2 (Inhalation), H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335
(Chloromethyl)oxirane, 4,4'-(1-methylethylidene)bisphenol Copolymer	25068-38-6	15 - 17	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 2, H401 Aquatic Chronic 2, H411

Any concentration shown as a range is to protect confidentiality or is due to batch variation. There are no additional ingredients present which, within the current knowledge of distributor and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

**SECTION 4 FIRST AID MEASURES**

**DESCRIPTION OF NECESSARY FIRST AID MEASURES:**

**General Information:**

Never give anything by mouth to an unconscious person

**Eye Contact:**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately

**Skin Contact:**

Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately.

**Inhalation:**

Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell

**Ingestion:**

Rinse mouth. Do not induce vomiting. Call a physician immediately



**MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:**

**Eye Contact:** Serious damage to eyes  
**Skin Contact:** Burns. May cause an allergic skin reaction  
**Ingestion:** Burns

**Indication of Any Immediate Medical Attention And Special Treatment Needed:** Treat symptomatically  
See toxicological information (Section 11)

**SECTION 5**

**FIRE FIGHTING MEASURES**

**EXTINGUISHING MEDIA**

**Suitable Extinguishing Media:** Water spray. Dry powder. Foam. Carbon dioxide

**SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE**

**Reactivity:** The product is non-reactive under normal conditions of use, storage and transport

**ADVICE FOR FIREFIGHTERS:** Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing

**SECTION 6**

**ACCIDENTAL RELEASE MEASURES**

**PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES**

**General Measures:** Do not handle until all safety precautions have been read and understood. Avoid contact with skin and eyes. Absorb spillage to prevent material damage. Clean up any spills as soon as possible, using an absorbent material to collect it

**For Non-Emergency Personnel:**

**Protective Equipment:** Avoid contact with skin and eyes; wear chemical protective clothing, eye protection and chemical resistant gloves

**Emergency Procedures:** Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe dust, fume, mist, spray, vapors. Avoid contact with skin, eyes and clothing. Do not breathe vapors.

**For Emergency Responders:** Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

**ENVIRONMENTAL PRECAUTIONS**

Avoid release to the environment.

**METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP**

**Methods For Cleaning Up:** Take up liquid spill into absorbent material.

**Other Information:** Dispose of materials or solid residues at a certified/authorized waste disposal site

**SECTION 7**

**HANDLING AND STORAGE**

**PRECAUTIONS FOR SAFE HANDLING**

**Precautions on Safe Handling:** Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. Do not breathe dust, fume, mist, spray, vapors. Wear personal protective equipment.

**Hygiene Measures:** Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

**CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES**

**Maximum Storage Period:** 12 months

**Storage Temperature:** 25°C

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**Storage Conditions:** Store locked up. Store in a well-ventilated place. Keep cool

**SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

**EXPOSURE GUIDELINES**

INGREDIENT	ACGIH TWA	OSHA PEL	NIOSH
Fiberglass (65997-17-3)	1 fibers/cm <sup>3</sup> (Respirable fibers: length > 5 µm; aspect ratio ≥ 3:1, as determined by the membrane filter method at 400-450X magnification (4-mm objective), using phase-contrast illumination) 5 mg/m <sup>3</sup> (Inhalable fraction)	Not available	Not available
Diethylenetriamine (111-40-0)	1 ppm URT & Eye Irritation	Not applicable	Not applicable
(Chloromethyl)oxirane, 4,4'-(1-methylethylidene)bisphenol Copolymer (25068-38-6)	Not applicable	Not applicable	Not applicable

**Appropriate Engineering Controls:** Industrial Hygiene/Ventilation Safe Practices: Since spraying and heating applications increase the potential for skin, eye and respirable exposures, stringent precautions must be taken to ensure the safety of the person(s) involved with these types of applications as well as other persons working in the area. Ventilation of at minimum of 10 air exchanges per hour is recommended. If ventilation is questionable, contact a local licensed HVAC Specialist and Certified Industrial Hygienist.

**Environmental Exposure Controls:** Avoid release to the environment

**PROTECTION MEASURES**

**Eye Protection:** Gloves. Safety glasses. Face shield. Protective clothing  
**Hand Protection:** Gloves  
**Materials for protective clothing:** Neoprene/butyl rubber. nitrile rubber/PVC  
**Eye Protection:** Wear security safety glasses or face shield that protects from splashes. When splashing may occur, face shield must be worn. When directly handling liquid product, eye protection is required. Examples of eye protection include a chemical safety goggle, or chemical safety goggle in combination with a full face shield when there is a greater risk of splash.  
**Skin And Body Protection:** Wear suitable protective clothing. Chemical resistant apron. Long sleeved protective clothing. Chemical resistant safety shoes. Head/neck protection  
**Respiratory Protection:** In case of insufficient ventilation, wear suitable certified respiratory equipment per OSHA 29 CFR 1910.134 standard. If ventilation is questionable, consult with a certified Industrial Hygienist and HVAC specialist. Where exposure through inhalation may occur from use, respiratory protection equipment is required

**SECTION 9 PHYSICAL/CHEMICAL PROPERTIES**

**Physical State:** Liquid  
**Color:** Opaque  
**Odour:** Mild Irritating  
**Odour Threshold:** Not available  
**pH:** 10.5 - 11  
**Melting Point:** Not available  
**Freezing Point:** Not available  
**Boiling Point:** > 207°C  
**Flash Point:** > 98°C

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<b>Relative Evaporation Rate (butyl acetate=1):</b>	Not available
<b>Flammability (solid, gas):</b>	Not applicable
<b>Vapor Pressure:</b>	< 1 mm Hg
<b>Relative Density:</b>	Not available
<b>Relative Vapor Density at 20°C:</b>	Not available
<b>Density:</b>	1.7 g/cm <sup>3</sup>
<b>Solubility:</b>	Not available
<b>Log Pow:</b>	Not available
<b>Auto-Ignition Temperature:</b>	> 399°C
<b>Decomposition Temperature:</b>	Not available
<b>Viscosity, Kinematic:</b>	Not available
<b>Viscosity, Dynamic:</b>	350000 – 500000 cP
<b>Explosion Limits:</b>	Not available
<b>Explosive Properties:</b>	Not available
<b>Oxidizing Properties:</b>	Not available
<b>Other Information:</b>	No additional information available

## SECTION 10 STABILITY AND REACTIVITY

<b>Chemical Stability:</b>	Stable under normal conditions.
<b>Conditions of Reactivity:</b>	The product is non-reactive under normal conditions of use, storage and transport.
<b>Possibility of Hazardous Reactions:</b>	No dangerous reactions known under normal conditions of use
<b>Conditions to avoid:</b>	None under recommended storage and handling conditions (see section 7)
<b>Incompatible Materials:</b>	No additional information available
<b>Hazardous Decomposition Products:</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced

## SECTION 11 TOXICOLOGICAL INFORMATION

### INFORMATION ON TOXICOLOGICAL EFFECTS:

**Acute Toxicity:** Not classified

### COMPONENT INFORMATION:

Ingredients	LD <sub>50</sub> (Oral)	LD <sub>50</sub> (Dermal)	ATE US
Diethylenetriamine (111-40-0)	1553 mg/kg bodyweight (Rat, Male, Experimental value, Oral, 14 day(s))	1045 mg/kg bodyweight (Rabbit, Experimental value, Dermal)	Oral: 1553 mg/kg bodyweight Dermal: 1045 mg/kg body weight Gases: 100 ppmv/4h Vapors: 0.5 mg/l/4h Dust, Mist: 0.05 mg/l/4h
(Chloromethyl)oxirane, 4,4'-(1-methylethylidene) bisphenol Copolymer (25068-38-6)	> 2000 mg/kg (OECD 420: Acute Oral toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral, 14 day(s))	> 2000 mg/kg (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male/female, Experimental value, Dermal)	Not available

<b>Skin Corrosion/Irritation:</b>	Causes severe skin burns and eye damage. pH: 10.5 - 11
<b>Serious Eye Damage/Irritation:</b>	Causes serious eye damage. pH: 10.5 - 11
<b>Respiratory or Skin Sensitization:</b>	May cause an allergic skin reaction
<b>Germ Cell Mutagenicity:</b>	Not classified
<b>Carcinogenicity:</b>	Not classified

**Reproductive Toxicity:** Not classified

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<b>Specific Target Organ Toxicity (Single Exposure):</b>	Not classified
<b>Diethylenetriamine (111-40-0):</b>	May cause respiratory irritation
<b>Specific Target Organ Toxicity (Repeated Exposure):</b>	Not classified
<b>Aspiration Hazard:</b>	Not classified
<b>Symptoms/Injuries After Skin Contact:</b>	Burns. May cause an allergic skin reaction.
<b>Symptoms/Injuries After Eye Contact:</b>	Serious damage to eyes
<b>Symptoms/Injuries After Ingestion:</b>	Burns

**SECTION 12 ECOLOGICAL INFORMATION**

**Ecology – General:** Harmful to aquatic life with long lasting effects. Harmful to aquatic life

**Toxicity:**

Ingredients	LC <sub>50</sub>	ErC <sub>50</sub>	EC <sub>50</sub>
Diethylenetriamine (111-40-0)	LC <sub>50</sub> fish 1: 430 mg/l (EU Method C.1, 96 h, Poecilia reticulata, Semi-static system, Fresh water, Experimental value, GLP)	1164 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Selenastrum capricornutum, Static system, Fresh water, Experimental value, GLP)	EC <sub>50</sub> Daphnia 1: 64.6 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
(Chloromethyl)oxirane, 4,4'-(1-methylethylidene) bisphenol Copolymer (25068-38-6)	LC <sub>50</sub> fish 1: 2.3 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Semi-static system, Fresh water, Experimental value, Nominal concentration)	> 11 mg/l (EPA 660/3 - 75/009, 72 h, Scenedesmus sp., Static system, Fresh water, Experimental value)	EC <sub>50</sub> Daphnia 1: 1.1 - 2.8 mg/l (Equivalent or similar to OECD 202, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)

**Persistence and Degradability:**

Ingredients	Persistence And Degradability	Biochemical Oxygen Demand (BOD)	Chemical Oxygen Demand (COD)	ThOD
Fiberglass (65997-17-3)	Biodegradability : Not applicable	Not applicable	Not applicable	Not applicable
Diethylenetriamine (111-40-0)	Readily biodegradable in the soil. Readily biodegradable in water.	Not available	Not available	Not available
(Chloromethyl)oxirane, 4,4'-(1-methylethylidene) bisphenol Copolymer (25068-38-6)	Not readily biodegradable in water.	Not available	Not available	Not available

**Bioaccumulative Potential:**

Ingredients	BCF	Log Pow	Bio accumulative Potential
Fiberglass (65997-17-3)	Not available	Not available	Not available
Diethylenetriamine (111-40-0)	BCF Fish 1: 0.3 - 6.3 (OECD 305: Bioconcentration: Flow-Through Fish Test, 8 week(s), Cyprinus carpio, Flow-through system, Fresh water, Experimental value, Fresh weight)	-1.58 (Calculated; 20°C)	Not bio accumulative

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(Chloromethyl)oxirane, 4,4'-(1-methylethylidene) bisphenol Copolymer (25068-38-6)	BCF Other Aquatic Organisms 1: 31 (Estimated value, Fresh weight)	2.64 - 3.78 (Experimental value, OECD 117: Partition Coefficient (n-ctanol/water), HPLC method, 25 °C)	Low potential for bioaccumulation (Log Kow < 4)
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**Mobility in Soil:**

Ingredient	Surface tension	Log Koc	Comments
Diethylenetriamine (111-40-0)	Not available	3.4 - 4.6 (log Koc, Other, Experimental value, GLP)	Adsorbs into the soil. Low potential for mobility in soil. Soil contaminant.
(Chloromethyl)oxirane, 4,4'-(1-methylethylidene) bisphenol Copolymer (25068-38-6)	58.7 - 58.9 mN/m (20 °C, EU Method A.5: Surface tension)	2.65 (log Koc, SRC PCKOCWIN v2.0, QSAR)	Low potential for adsorption in soil.

**SECTION 13**

**DISPOSAL CONSIDERATIONS**

**Waste Disposal Recommendations:** When handling waste, the safety precautions applying to handling of the product should be considered. Waste, residues, empty containers, discarded work clothes and contaminated cleaning material should be collected in designated containers, labeled with their contents. Dispose of surplus products and those that cannot be recycled via local licensed waste disposal contractor. Disposal of this product, process solutions, residues and by-products should at all times comply with state and federal waste disposal legislation any other local authority requirements. Do not cut or weld used containers unless they have been thoroughly cleaned and inspected for safe use.

**SECTION 14**

**TRANSPORTATION**

Regulatory Information	UN Number	Proper Shipping Name	Transport Hazard Class	Hazard labels	Packing Group
DOT	1760	Corrosive Liquids, N.O.S. (Diethylenetriamine)	Class 8 Corrosive material 49 CFR 173.136		III - Minor Danger
IMDG	1760	Corrosive Liquids, N.O.S.	Class 8 Corrosive substances		III - substances presenting low danger
IATA	1760	Corrosive Liquids, N.O.S.	Class 8 Corrosive substances		III - Minor Danger

**OTHER INFORMATION**

**Department of Transportation (DOT)**

DOT Packaging Non Bulk (49 CFR 173.xxx): 203

DOT Packaging Bulk (49 CFR 173.xxx): 241

DOT Symbols:

G - Identifies PSN requiring a technical name

DOT Special Provisions (49 CFR 172.102):

IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50°C (1.1 bar at



122° F), or 130 kPa at 55°C (1.3 bar at 131°F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672)T7 - 4 178.274(d)(2) Normal..... 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling =  $97 / 1 + a (tr - tf)$  Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling

TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP

**DOT Packaging Exceptions (49 CFR 173.xxx):**

154

**DOT Quantity Limitations Passenger**

**aircraft/rail (49 CFR 173.27):**

5L

**DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75):**

60L

**DOT Vessel Stowage Location:**

A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel

**DOT Vessel Stowage Other:**

40 - Stow "clear of living quarters"

**Emergency Response Guide (ERG) Number:**

154

**Other information:**

No supplementary information available

**International Maritime Dangerous Code (IMDG)**

**Limited Quantities:**

5 L

**SECTION 15**

**REGULATORY INFORMATION**

**US Federal Regulations**

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

Ingredient	Regulations
(Chloromethyl)oxirane, 4,4'-(1-methylethylidene)bisphenol Copolymer (25068-38-6)	EPA TSCA Regulatory Flag: XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).

**International Regulations:**

**CANADA (WHMIS) D-2B:**

**Diethylenetriamine (111-40-0):**

Listed on the Canadian DSL (Domestic Substances List)

**(Chloromethyl)oxirane, 4,4'-(1-methylethylidene)**

**bisphenol Copolymer (25068-38-6):**

Listed on the Canadian DSL (Domestic Substances List)

**Fiberglass (65997-17-3):**

Listed on the Canadian DSL (Domestic Substances List)

**EU-Regulations:**

No additional information available

**National Regulations:**

No additional information available

**US State Regulations:**

**California Proposition 65:**

This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

Ingredient	Regulations
Diethylenetriamine (111-40-0)	U.S. - New Jersey - Right to Know Hazardous Substance List



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**SECTION 16**

**OTHER INFORMATION**

**HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS):**

**Health – 3**

**Flammability – 1**

**Physical Hazard – 0**

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The customer is responsible for determining the PPE code for this material.

**Key to Abbreviations:**

ATE = Acute Toxicity Estimate

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Code

UN = United Nations

TDG = Transportation of Dangerous Goods

TSCA = United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL= Canadian Domestic Substances List/Non-Domestic Substances List

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