



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"> • Skin corrosion/irritation – Category 1B • Skin sensitization - Category 1 	No classifiable hazards	No classifiable hazards

LABELLING

Symbols:



Signal Word: Danger

Hazard Statements

- H302 - Harmful if swallowed
- H312 - Harmful in contact with skin
- H314 - Causes severe skin burns and eye damage
- 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

- P262 - Do not get in eyes, on skin, or on clothing
- P261 - Avoid breathing vapors
- P264 - Wash hands, forearms and face thoroughly after handling
- P272 - Contaminated work clothing must not be allowed out of the workplace
- P280 - Wear eye protection, protective gloves
- 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 all contaminated clothing. Rinse skin with water/shower
- P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
- P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P333+P313 - If skin irritation or rash occurs: Get medical advice/attention

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- P363 - Wash contaminated clothing before reuse
- P270 - Do not eat, drink or smoke when using this product

Other Hazards:

No additional information available.

Unknown Acute Toxicity:

Not applicable

SECTION 3

COMPOSITION / INFORMATION ON INGREDIENTS

MIXTURES.

Name	CAS#	Wt. Percentage*	Classification (GHS-US)
Soda-Lime Glass	65997-17-3	67 - 69	Not classified
Diethylenetriamine	111-40-0	15 - 17	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1B, H314 Skin Sens. 1, H317
Propane,2,2-bis[p-(2,3-epoxypropoxy)phenyl]-	25068-38-6	15 - 17	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411
Silica, Amorphous, Fumed, Crystalline-Free	112945-52-5	< 1	Not classified

* 0 - 3 % material composition inclusive of inert and non-hazardous filler withheld as trade secret in accordance with paragraph 1910.1200(i)(1). 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:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Skin Contact:

Gently wash with plenty of soap and water

Inhalation:

Remove the victim into fresh air

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

Symptoms/Injuries:

Skin rash/inflammation

Eye Contact:

Causes eye irritation

Skin Contact:

Causes skin irritation

Indication of Any Immediate Medical Attention And Special Treatment Needed: No additional information available

See toxicological information (Section 11)

SECTION 5

FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

Suitable Extinguishing Media:

ABC powder. Dry powder. Water spray

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:

No additional information available



SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

For Non-Emergency Personnel:

Protective Equipment: EN 166. Gloves

For Emergency Responders: No additional information available

ENVIRONMENTAL PRECAUTIONS

Avoid release to the environment.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Methods For Containment: Collect spillage

Methods For Cleaning Up: Absorb spillage to prevent material damage

Other Information: No additional information available

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Precautions on Safe Handling: No additional information available

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Maximum Storage Period: 12 months

Storage Temperature: 25°C

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

INGREDIENT	ACGIH TWA	OSHA PEL	NIOSH
Soda-Lime Glass (65997-17-3)	<p>1 fibers/cm³ (Synthetic Vitreous Fib. continuous film glass fibers; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; 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</p> <p>Synthetic Vitreous Fib., Glass wool fibers; 1 fibers/cm³; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; 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</p> <p>Synthetic Vitreous Fib. continuous film glass fibers; 5 mg/m³; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Inhalable fraction)</p>	Not available	Not available

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Silica, Amorphous, Fumed, Crystalline-Free (112945-52-5)	Not applicable	Not applicable	Not applicable
Diethylenetriamine (111-40-0)	1 ppm URT & Eye Irritation	Not applicable	Not applicable
Propane, 2,2-bis[p-(2,3 epoxypropoxy)phenyl]- (25068-38-6)	Not applicable	Not applicable	Not applicable

PROTECTION MEASURES

Eye Protection: Safety glasses.
Hand Protection: Gloves
Materials for protective clothing: Butyl Rubber. Neoprene. Nitrile Rubber

SECTION 9 PHYSICAL/CHEMICAL PROPERTIES

Physical State: Liquid
Color: Opaque
Odor: There may be no odour warning properties, odour is subjective and inadequate to warn of overexposure.
Mixture contains one or more component(s) which have the following odor(s): Odorless, Ammonia odor, Mild odor
Odor Threshold: Not available
pH: Not available
Melting Point: Not available
Freezing Point: Not available
Boiling Point: > 207°C
Flash Point: > 98°C
Relative Evaporation Rate (butyl acetate=1): Not available
Flammability (solid, gas): Not available
Vapor Pressure: < 0.14 mm Hg
Relative Density: Not available
Relative Vapor Density at 20°C: Not available
Specific Gravity / Density: 1.7 g/l
Solubility: Not available
Log P_{ow}: Not available
Auto-Ignition Temperature: > 399°C
Decomposition Temperature: Not available
Viscosity, Kinematic: Not available
Viscosity, Dynamic: 350000 - 500000 cP
Explosion Limits: Not available
Explosive Properties: Not available
Oxidizing Properties: Not available
Other Information: No additional information available

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions.
Conditions of Reactivity: The product is non-reactive under normal conditions of use, storage and transport.
Possibility of Hazardous Reactions: No additional information available
Conditions to avoid: No additional information available
Incompatible Materials: No additional information available
Hazardous Decomposition Products: No additional information available

**SECTION 11****TOXICOLOGICAL INFORMATION****INFORMATION ON TOXICOLOGICAL EFFECTS:****Acute Toxicity:** Not classified**COMPONENT INFORMATION:**

Ingredients	LC ₅₀ (Inhalation)	LD ₅₀ (Oral)	LD ₅₀ (Dermal)	ATE US
Silica, Amorphous, Fumed, Crystalline-Free (112945-52-5)	Not available	3160 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	Oral: 3160.000 mg/kg body weight
Diethylenetriamine (111-40-0)	Not available	1553 mg/kg body weight (Rat; Other; Experimental value)	1045 mg/kg body weight (Rabbit; Experimental value; Other)	Oral: 1553.000 mg/kg body weight Dermal: 1045.000 mg/kg body weight
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]- (25068-38-6)	Not available	> 2000 mg/kg (Rat; OECD 420: Acute Oral toxicity – Acute Toxic Class Method; Experimental value)	> 2000 mg/kg (Rat; Experimental value; OECD 402: Acute Dermal Toxicity)	Not available

Skin Corrosion/Irritation: Causes severe skin burns and eye damage**Serious Eye Damage/Irritation:** Not classified**Respiratory or Skin Sensitization:** May cause an allergic skin reaction**Germ Cell Mutagenicity:** Not classified**Carcinogenicity:** Not classified

Ingredients	Chemical Listed as Carcinogen or Potential Carcinogen *
Soda-Lime Glass (65997-17-3)	IARC group 3 - Not classifiable
Silica, Amorphous, Fumed, Crystalline-Free (112945-52-5)	IARC group 3 - Not classifiable

* See Section 15 for more information

Reproductive Toxicity: Not classified**Specific Target Organ Toxicity (Single Exposure):** Not classified**Specific Target Organ Toxicity (Repeated Exposure):** Not classified**Aspiration Hazard:** Not classified**Symptoms/Injuries After Skin Contact:** Causes skin irritation.**Symptoms/Injuries After Eye Contact:** Causes eye irritation.**SECTION 12****ECOLOGICAL INFORMATION****Toxicity:**

Ingredients	LC ₅₀	EC ₅₀
Diethylenetriamine (111-40-0)	LC ₅₀ fish 1: 430 mg/l (LC50; EU Method C.1; 96 h; Poecilia reticulata; Semi-static system; Fresh water; Experimental value)	EC ₅₀ Daphnia 1: 64.6 mg/l (EC50; EU Method C.2; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]- (25068-38-6)	LC ₅₀ fish 2: 2.3 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Oncorhynchus mykiss; Semi-static system; Fresh water; Experimental value)	EC ₅₀ Daphnia 2: 1.1 - 2.8 mg/l (EC50; Equivalent or similar to OECD 202; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)

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Ingredient	Threshold Limit Algae 1	Threshold Limit Algae 2
Diethylenetriamine (111-40-0)	1164 mg/l (ErC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Selenastrum capricornutum; Static system; Fresh water; Experimental value)	10 mg/l (NOEC; OECD 201: Alga, Growth Inhibition Test; 72 h; Selenastrum capricornutum; Static system; Fresh water; Experimental value)

Persistence and Degradability:

Ingredients	Persistence And Degradability	Biochemical Oxygen Demand (BOD)	Chemical Oxygen Demand (COD)	ThOD
Soda-Lime Glass (65997-17-3)	Biodegradability : Not applicable	Not applicable	Not applicable	Not applicable
Silica, Amorphous, Fumed, Crystalline-Free (112945-52-5)	Biodegradability : Not applicable	Not applicable	Not applicable	Not applicable
Diethylenetriamine (111-40-0)	Readily biodegradable in water. Readily biodegradable in the soil. Adsorbs into the soil. Low potential for mobility in soil. Photooxidation in the air	Not available	Not available	Not available
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]- (25068-38-6)	Not readily biodegradable in water. Hydrolysis in water. Low potential for adsorption in soil	Not available	Not available	Not available

Bioaccumulative Potential:

Ingredients	BCF	Log P _{ow}	Bioaccumulative Potential
Soda-Lime Glass (65997-17-3)	Not available	Not available	Not available
Silica, Amorphous, Fumed, Crystalline-Free (112945-52-5)	Not available	Not available	Not bioaccumulative
Diethylenetriamine (111-40-0)	BCF Fish 1: 0.3 - 6.3 (BCF; OECD 305: Bioconcentration: Flow-Through Fish Test; 8 weeks; Cyprinu carpio; Flow-through system; Fresh water; Experimental value; Fresh weight)	-1.58 (Calculated; 20°C; -5.58; Calculated; 20°C)	Low potential for bioaccumulation (BCF < 500).
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl] (25068-38-6)	BCF Other Aquatic Organisms 1: 3 - 31 (BCF)	>= 2.918 (Experimental value; EU Method A.8: Partition Coefficient; 25°C)	Low potential for bioaccumulation (BCF < 500).

Mobility in Soil:

Ingredient	Surface tension	Log K _{oc}	Comments
Diethylenetriamine (111-40-0)	Not available	log K _{oc} , Other; 3.4 - 4.6; Experimental value; GLP	Soil contaminant
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]- (25068-38-6)	0.0587-0.0589, 20°C	log K _{oc} , SRC PCKOCWIN v2.0; 2.65; QSAR	None

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Effect on The Global Warming: No known effects from this product
GWPmix Comment: No known effects from this product

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Dispose in a safe manner in accordance with local/national regulations.

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"

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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 except for:

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

Ingredient	Regulations
Propane, 2,2-bis[p-(2,3 epoxypropoxy)phenyl]- (25068-38-6)	EPA TSCA Regulatory Flag: XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e, Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C))

International Regulations:

CANADA (WHMIS):

E, D-2B

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

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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