



SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT

Product Name: Epoxy Bond Kit- Part A
Product Number: H1917, T400-0979, T400-1189
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 2 • Serious eye damage/eye irritation - Category 2A • Skin sensitization - Category 1 	Acute aquatic hazard – Category 2 Chronic aquatic hazard – Category 2	No classifiable hazards

LABELLING

Symbols:



Signal Word: WARNING

Hazard Statements

H315: Causes skin irritation
 H317: May cause an allergic skin reaction
 H319: Causes serious eye irritation
 H401 - Toxic to aquatic life
 H411: Toxic to aquatic life with long-lasting effects

Precautionary Statements

P261 - Avoid breathing dust, fume, gas, mist, vapors, spray
 P264 - Wash hands, forearms, face and clothing thoroughly after handling.
 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.
 P302+P352 - If on skin: Wash with plenty of soap and water.
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P332+P313 - If skin irritation occurs: Get medical advice/attention.
 P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
 P337+P313 - If eye irritation persists: Get medical advice/attention.
 P362+P364 - Take off contaminated clothing and wash it before reuse.
 P363 - Wash contaminated clothing before reuse.



P391 - Collect spillage.
P501 - Contact a local certified and licensed waste disposal contractor or collection site to ensure proper and legal disposal.

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)
Fiberglass	65997-17-3	47 - 49	Carc. 2, H351
(Chloromethyl)oxirane, 4,4'-(1-methylethylidene)bisphenol Copolymer	25068-38-6	45 - 47	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens.1,H317 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
Orange Color Paste	No CAS	1 – 5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2B, H320

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

Ingestion:

Call a poison center or a doctor if you feel unwell

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

Eye Contact:

Causes eye irritation

Skin Contact:

Irritation. May cause an allergic skin reaction

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. Avoid breathing dust, fume, gas, mist, vapors, spray. 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 Containment:** Collect spillage
- 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:** 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. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing dust, fume, gas, mist, vapors, spray.
- 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
- Storage Conditions:** Store in a well-ventilated place. Keep cool

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

INGREDIENT	ACGIH TWA
(Chloromethyl)oxirane, 4,4'-(1-methylethylidene)bisphenol Copolymer (25068-38-6)	Not applicable



Fiber Glass (65997-17-3)	1 fibers/cm ³ (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 ³ (Inhalable fraction)
Orange Color Paste	Not applicable

PROTECTION MEASURES

Eye Protection:	Safety glasses.
Hand Protection:	Gloves
Materials for protective clothing:	Butyl Rubber. Neoprene. Nitrile Rubber/PVC
Respiratory Protection:	In case of insufficient ventilation, wear suitable certified respiratory equipment per OSHA 29 CFR 1910.134 standard.
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. Avoid release to the environment.

SECTION 9

PHYSICAL/CHEMICAL PROPERTIES

Physical State:	Liquid
Color:	Orange
Odor:	Mild
Odor Threshold:	Not available
pH:	5 – 6 In House Test
Melting Point:	Not available
Freezing Point:	Not available
Boiling Point:	> 320°C
Flash Point:	> 252°C
Relative Evaporation Rate (butyl acetate=1):	Not available
Flammability (solid, gas):	Not available
Vapor Pressure:	< 0.0001 mm Hg
Relative Density:	Not available
Relative Vapor Density at 20°C:	Not available
Density:	1.6 g/cm ³
Solubility:	Not available
Log Pow:	Not available
Auto-Ignition Temperature:	> 300°C
Decomposition Temperature:	Not available
Viscosity, Kinematic:	Not available
Viscosity, Dynamic:	175000 - 200000 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 dangerous reactions known under normal conditions of use

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Conditions to avoid: None under recommended storage and handling conditions (see section 7)
Incompatible Materials: No additional information available
Hazardous Decomposition Products: 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 ₅₀ (Oral)	LD ₅₀ (Dermal)	ATE US
(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
Orange Color Paste	Not available	Not available	Oral - 500 mg/kg bodyweight Gases - 4500 ppmv/4h Vapours - 11 mg/l/4h Dust, Mist - 1.5 mg/l/4h

Skin Corrosion/Irritation: Causes skin irritation. pH: 5 - 6 In House Test
Serious Eye Damage/Irritation: Causes serious eye irritation. pH: 5 - 6 In House Test
Respiratory or Skin Sensitization: May cause an allergic skin reaction
Germ Cell Mutagenicity: Not classified
Carcinogenicity: Not classified
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: Irritation. May cause an allergic skin reaction.
Symptoms/Injuries After Eye Contact: Causes eye irritation

SECTION 12 ECOLOGICAL INFORMATION

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

Toxicity:

Ingredient	LC ₅₀ Fish 1	EC ₅₀ Daphnia 1	ErC ₅₀ Algae
(Chloromethyl)oxirane, 4,4'-(1-methylethylidene)bisphenol Copolymer (25068-38-6)	2.3 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Semi-static system, Fresh water, Experimental value, Nominal concentration)	1.1 - 2.8 mg/l (Equivalent or similar to OECD 202, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)	> 11 mg/l (EPA 660/3 - 75/009, 72 h, Scenedesmus sp., Static system, Fresh water, Experimental value)

Persistence and Degradability:

Ingredients	Persistence And Degradability	Biochemical Oxygen Demand (BOD)	Chemical Oxygen Demand (COD)	ThOD
Fiberglass (65997-17-3)	Biodegradability: not applicable.	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 Other Aquatic Organisms 1	Log Pow	Bioaccumulative Potential
Fiberglass (65997-17-3)	Not available	Not available	Not available
(Chloromethyl)oxirane, 4,4'-(1-methylethylidene)bisphenol Copolymer (25068-38-6)	31 (Estimated value, Fresh weight)	2.64 - 3.78 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C)	Low potential for bioaccumulation (Log Kow < 4).


Mobility in Soil:

Ingredient	Surface tension	Log Koc	Ecology - soil
(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	Not regulated				
TDG	Not regulated				
IMDG	3082	Environmentally Hazardous Substance, Liquid, N.O.S. (Epoxy Resins)	Class 9		III - substances presenting low danger
IATA	3082	Environmentally Hazardous Substance, Liquid, N.O.S. (Epoxy Resins)	Class 9		III - substances presenting low danger

OTHER INFORMATION

International Maritime Dangerous Code (IMDG)

Limited Quantities: 5 L

Marine pollutant: Yes

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: Orange Paste 1 – 3%

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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

Fiberglass (65997-17-3):

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)

Orange Color Paste:

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-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

SECTION 16

OTHER INFORMATION

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS):

Health – 2

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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