SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT

Product Name: Epoxy Plug Kit Part B
Product Number: C4000730 Part B and Catalog Number T4001192
Intended Use: Epoxy Plug for Fiberglass Reinforced Plastic Poles

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

OSHA Status: This material is considered hazardous by the OSHA Hazard Communications Standard (29 CFR 1910.1200)

CLASSIFICATION

Health	Environmental	Physical
Serious eye damage Category 1 Skin sensitization - Sub-category 1B Reproductive toxicity – category 2 Specific target organ toxicity - repeated exposure – category 1 (Lungs, larynx, Respiratory Tract)	Chronic aquatic toxicity Category 3 Acute aquatic toxicity Category 3	Flammable Liquid Category 4

LABELLING

Symbol:

Signal Word: Danger

Hazard Statements	Precautionary Statements
• Causes eye and skin burn • Causes respiratory tract irritation • May be harmful if absorbed through skin of if swallowed • Aspirational hazard if swallowed – can enter lungs and cause damage • Harmful to aquatic life with long lasting effects	• Do not breathe vapor or mist • Do not ingest • Do not get in eyes or on skin or clothing • Use only with adequate ventilation • Keep container tightly closed and sealed until ready for use • Wash thoroughly after handling

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

MIXTURES.

Name	CAS#	Wt. Percentage
Polyoxypropylenediamine	9046-10-0	60 - 100
2,2',2''-nitrilotriethanol	102-71-6	10 - 30
2-piperazin-1-ylethylamine	140-31-8	1 - 5
2,2'-iminodi(ethylamine)	111-40-0	0.1 - 1
Triethylenetetramine	112-24-3	0.1 - 0.25

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: In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible)

Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention immediately.

Skin Contact: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention immediately.

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If you feel unwell, seek medical advice immediately.

Ingestion: DO NOT induce vomiting. If victim is conscious and alert, give 2 cupfuls of water. Never give anything by mouth to an unconscious person. Seek medical attention or call poison control immediately.

Signs and Symptoms: Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling. Symptoms may include redness, edema, drying, defatting and cracking of the skin. Abdominal pain. Burning sensation. Shock or collapse. Sore throat. Cough. Labored breathing. Shortness of breath.

Note to Physicians: Symptoms may not appear immediately.

See toxicological information (Section 11)

SECTION 5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

Suitable Extinguishing Media: Powder, carbon dioxide

Unsuitable Extinguishing Media: Water or foam may cause frothing

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Products of Combustion: May include, and are not limited to: carbon dioxide, carbon monoxide and nitrogen oxide.

Special Exposure Hazard: In a fire or if heated, a pressure increase will occur, and the container may burst. Promptly isolate the scene by removing all persons from the vicinity and no action shall be taken involving any personal risk or without suitable training.

Sensitivity to Mechanical Impact: Not available.

Sensitivity to Static Discharge: Not available

Protective Equipment And Precautions for Firefighters: Keep upwind of fire. Wear full firefighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

General Measures: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Environmental Precautions: Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination

Methods for Containment: Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for Cleaning Up: Scoop up material and place in a disposal container. Provide ventilation.

Other Information: Not available

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Precautions on Safe Handling: Keep away from sources of ignition. No smoking. Avoid contact with skin and eyes. Do not swallow. Do not breathe gas/fumes/vapor/spray. Use only in well-ventilated areas. Handle and open container with care. When using do not eat or drink. Wash hands before eating, drinking, or smoking.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Storage Conditions: Keep out of the reach of children. Keep container tightly closed and in a well-ventilated place. Do not store at temperatures above 49 °C / 120 °F. Store in accordance with local regulations.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

INGREDIENT	ACGIH - TWA
Polyoxypropylenediamine	Not available
2,2',2''-nitrilotriethanol	5 mg/m^3
2,2'-iminodi(ethylamine)	1 ppm

CONTROL PARAMETERS

Appropriate Engineering Controls: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

INDIVIDUAL PROTECTION MEASURES

Eye Protection: Wear approved eye protection and face protection
Hand Protection: Wear suitable protective gloves
Skin and Body Protection: Wear suitable protective clothing
Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment.
General Hygiene Considerations: Handle according to established industrial hygiene and safety practices

SECTION 9 PHYSICAL/CHEMICAL PROPERTIES

Physical State: Liquid
Color: Colorless to light yellow
Odor: Ammoniacal. (slight)
Odor Threshold: Not available
pH: 11.6
Viscosity: Kinematic:0.22 cm^2/s (22 cSt at 25°C)
Melting Point: Not available

Boiling Point:	> 260 °C (>500 °F)
Flash Point:	Closed cup: 163°C (325.4°F)
Oxidizing Properties:	Not available
Relative Density:	0.97
Solubility:	>10%
Octanol/water partition coefficient:	Not available
Vapor Density:	>1 [Air=1]
VOC content:	Not available

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability:	Stable under normal storage conditions. Keep in a cool place.
Conditions of Reactivity:	Heat. Incompatible materials
Incompatible Materials:	Acids, carbon dioxide, carbon monoxide, ammonia, aldehydes, ketones
Hazardous Polymerization:	Under normal conditions of storage and use hazardous polymerization will not occur.
Hazardous Decomposition Products:	May include, and are not limited to: carbon dioxide, carbon monoxide and nitrogen oxide.

SECTION 11 TOXICOLOGICAL INFORMATION

COMPONENT INFORMATION:

Ingredients	LD50	LC_{50} (Inhalation)
Polyoxypropylenediamine	Dermal:1555 mg/kg rabbit-male, female Oral:1100 mg/kg rat	Not available
2,2'-iminodi(ethylamine)	Dermal:2,946 mg/kg Method: Calculation method	0.185 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403

Carcinogenicity – Assessment

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Eye: Causes burns. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.

Skin: Toxic in contact with skin. Causes burns. May cause sensitization by skin contact. Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Ingestion: Toxic if swallowed. Causes burns. May cause stomach distress, nausea or vomiting. Harmful: may cause lung damage if swallowed. Abdominal pain. Burning sensation. Shock or collapse.

Inhalation: May cause respiratory tract irritation. May cause respiratory sensitization. This product may be aspirated into the lungs and cause chemical pneumonitis. Burning sensation. Sore throat. Cough. Labored breathing. Shortness of breath.

EFFECTS OF CHRONIC EXPOSURE

Target Organs:	Not available.
Chronic Effects:	Prolonged and/or repeated contact may cause severe dermatitis and /or more serious skin disorders. May cause sensitization by inhalation.
Carcinogenicity:	Not hazardous by WHMIS criteria.

Mutagenicity: Not hazardous by WHMIS criteria.
Reproductive Effects: Not hazardous by WHMIS criteria.
Developmental Effects:
Teratogenicity: Not hazardous by WHMIS criteria.
Embryotoxicity: Not hazardous by WHMIS criteria.
Toxicologically Synergistic Materials: Not available.

Signs and Symptoms: Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling. Symptoms may include redness, edema, drying, defatting and cracking of the skin. Abdominal pain. Burning sensation. Shock or collapse. Burning sensation. Sore throat. Cough. Labored breathing. Shortness of breath.

SECTION 12 ECOLOGICAL INFORMATION

Ingredient	Result
Polyoxypropylenediamine	Acute EC_{50}: 15 mg/L, Daphnia, 48 hours Acute IC_{50}: 135 mg/L, Algae, 72 hours Acute LC_{50}: >100 mg/L, Fish, 96 hours
2,2',2''-nitrilotriethanol:	LC_{50} (Pimephales promelas (fathead minnow)): 11,800 mg/l, 96 hours EC_{50} (Ceriodaphnia dubia (Water flea)): 609.88 mg/l, 48 hours ErC_{50} (Desmodesmus subspicatus (green algae)): 512 mg/l, 72 hours
2-piperazin-1-ylethylamine	LC_{50}: 2,190 mg/l, 96 hours EC_{50} (Daphnia magna (Water flea)): 58 mg/l, 48 hours EC_{50} (Selenastrum capricornutum (green algae)): > 1,000 mg/l, 72 hours
2,2'-iminodi(ethylamine)	LC_{50}: 430 mg/l, 96 hours EC_{50} (Daphnia magna (Water flea)): 32 mg/l, 48 hours EbC_{50} (Selenastrum capricornutum (green algae)): 1,164 mg/l, 72 hours
Triethylenetetramine:	LC_{50} (Pimephales promelas (fathead minnow)): 330 mg/l, 96 hours EC_{50} (Daphnia magna (Water flea)): 31.1 mg/l, 48 hours ErC_{50} (Selenastrum capricornutum (green algae)): 20 mg/l, 72 hours

Ecotoxicity: Harmful to aquatic organism. May cause long-term adverse effects in the aquatic environment
Biodegradability: Not readily biodegradable
Bioaccumulation / Accumulation: Not available
Mobility in Soil: Not available

SECTION 13 DISPOSAL CONSIDERATIONS

Disposal Methods: The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. This material must be disposed of in accordance with all local, state, provincial, and federal regulations.

SECTION 14 TRANSPORTATION

Regulatory Information	UN Number	Proper Shipping Name	Transport Hazard Class	Hazard labels	Packing Group
DOT	UN2735	Amines, liquid, corrosive, n.o.s (Polyoxypropylene diamine)	Class 8		II
TDG	UN2735	Amines, liquid, corrosive, n.o.s (Polyoxypropylene diamine)	Class 8		II
IMDG	UN2735	Amines, liquid, corrosive, n.o.s (Polyoxypropylene diamine)	Class 8		II
IATA	UN2735	Amines, liquid, corrosive, n.o.s (Polyoxypropylene diamine)	Class 8		II

Additional Information:

IMDG: Emergency Schedule (EmS) – F-A, S-B

IATA: Passenger and Cargo Aircraft
Limited quantity: 1L
Packaging Instruction:808

Cargo Aircraft Only:
Limited quantity: 30L
Packaging Instruction:812

SECTION 15 REGULATORY INFORMATION

United States:

HCS Classification: Corrosive material

U.S. Federal Regulations: United States Inventory (TSCA 8b)-All components are listed or exempted

CERCLA: Hazardous Substance: No ingredients listed

SARA 313: No ingredients listed. This product does not contain nor is manufactured with ozone depleting substance

California Prop 65: This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would

require a warning under the statute.

Canada:

WHMIS (Canada): Class E: Corrosive material

CEPA (DSL): All components are listed or exempted.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations

SECTION 16 OTHER INFORMATION

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS)

Health - 3 **Flammability -** 1 **Physical Hazard -** 0 **PPE –** C

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

Health - 3 **Fire -** 1 **Reactivity –** 0

Caution: HMIS® and NFPA ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks.

Key to Abbreviations:

ATE = Acute Toxicity Estimate
BCF = Bio-concentration Factor
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