

U.S. DEPARTMENT OF LABOR  
Occupational Safety and Health Administration

Form Approved  
OMB No. 44-R1387

# MATERIAL SAFETY DATA SHEET

Cat. No.  
C400-0730  
Sheet 1 of 3

Required under USDL Safety and Health Regulations for Ship Repairing,  
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

## SECTION I

MANUFACTURER'S NAME A. B. Chance Co.		EMERGENCY TELEPHONE NO. 314-682-8435
ADDRESS (Number, Street, City, State, and ZIP Code) 210 N. Allen St. - Centralia, MO 65240		
CHEMICAL NAME AND SYNONYMS Diglycidyl Ether of Bisphenol A (Modified)		TRADE NAME AND SYNONYMS Epoxiglas (R) Plug Kit Resin
CHEMICAL FAMILY Epoxy Resin	FORMULA	

## SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES MgO	.17	10 ppm	OTHERS		
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Triphenyl Phosphite				16.6	N.E.

## SECTION III - PHYSICAL DATA

BOILING POINT (°F.) (Initial)	266	SPECIFIC GRAVITY (H <sub>2</sub> O=1)	1.16
VAPOUR PRESSURE (mm Hg.)	Nil	PERCENT, VOLATILE BY VOLUME (%)	0.0
VAPOR DENSITY (AIR=1)	>1	EVAPORATION RATE (_____ %)	Nil
SOLUBILITY IN WATER	Insol		
APPEARANCE AND ODOR			

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	425 cc	FLAMMABLE LIMITS	Lel	Uel
EXTINGUISHING MEDIA Foam, CO <sub>2</sub> , Dry Chemical				
SPECIAL FIRE FIGHTING PROCEDURES Self-Contained Breathing Apparatus with Full Facepiece. Use water to keep fire-exposed containers cool.				
UNUSUAL FIRE AND EXPLOSION HAZARDS None				

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	See Section II
EFFECTS OF OVEREXPOSURE This product contains materials (epoxy resins) which may cause skin and eye irritation and/or sensitization after repeated contact.	
EMERGENCY AND FIRST AID PROCEDURES Skin- Wash immediately with soap and water.	
Eyes- Flush with plenty of water for 15 minutes and seek medical attention immediately.	

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID Strong Acids, Amines, Mercaptans and Bases
	STABLE	X	
INCOMPATABILITY (Materials to avoid) Strong Acids, Oxidizing Agents, Amines, Mercaptans and Bases			
HAZARDOUS DECOMPOSITION PRODUCTS CO, CO <sub>2</sub> , Phosphorus Compounds			
HAZARDOUS POLYMERIZATION	MAY OCCUR	X	CONDITIONS TO AVOID Strong Acids, Amines, Mercaptans, and Bases
	WILL NOT OCCUR		

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Absorb. with inert material (sand, vermiculite, etc.) sweep or scoop up and put in disposal container. Flush area immediately with plenty of water; prevent washings from entering waterways.	
WASTE DISPOSAL METHOD Incinerate in furnace or bury in landfill in accordance with Federal, State and Local regulations	

SECTION VIII - SPECIAL PROTECTION INFORMATION		
RESPIRATORY PROTECTION (Specify type) NIOSH approved organic vapor respirators when ventilation is inadequate.		
VENTILATION	LOCAL EXHAUST	SPECIAL
	MECHANICAL (General) X	OTHER
PROTECTIVE GLOVES	Impervious Gloves	EYE PROTECTION Safety Glasses
OTHER PROTECTIVE EQUIPMENT Safety Shower Eye Bath. Use coveralls or apron to protect against skin and clothing contamination.		

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Practice reasonable care and cleanliness.	
OTHER PRECAUTIONS Avoid gross contamination of skin, wash off skin with soap and water. S.P.I. Class 2 (ANSI K68.1-1978)	

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ADDRESS (Number, Street, City, State, and ZIP Code) 210 N. Allen St. - Centralia, MO 65240		
CHEMICAL NAME AND SYNONYMS		TRADE NAME AND SYNONYMS "B" Epoxiglas (R) Plug Kit Hardener
CHEMICAL FAMILY Aliphatic Amines and Oxyamines	FORMULA	

## SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)

## SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	> 500	SPECIFIC GRAVITY (H <sub>2</sub> O=1)	.985
VAPOR PRESSURE (mm Hg.)	< 1	PERCENT VOLATILE BY VOLUME (%)	0
VAPOR DENSITY (AIR=1)	> 1	EVAPORATION RATE (_____ =1)	Nil
SOLUBILITY IN WATER	Complete		
APPEARANCE AND ODOR Pale Yellow Liquid, Ammoniacal Odor			

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	194°F P-MCC	FLAMMABLE LIMITS	Lel	Uel
EXTINGUISHING MEDIA	*			
SPECIAL FIRE FIGHTING PROCEDURES	*			
UNUSUAL FIRE AND EXPLOSION HAZARDS	None			

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	Not Determined
EFFECTS OF OVEREXPOSURE Inhalation can produce hazy vision and irritation of nose and throat. This material has the capacity to produce severe injury to skin and eye tissue.	
EMERGENCY AND FIRST AID PROCEDURES *	

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	
INCOMPATABILITY (Materials to avoid)			
HAZARDOUS DECOMPOSITION PRODUCTS Ammonia, CO, CO <sub>2</sub>			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	
*	
WASTE DISPOSAL METHOD	
*	

SECTION VIII - SPECIAL PROTECTION INFORMATION		
RESPIRATORY PROTECTION (Specify type)      Amine Cartridge		
VENTILATION	LOCAL EXHAUST      Preferable	SPECIAL
	MECHANICAL (General)      Satisfactory	OTHER
PROTECTIVE GLOVES      *		EYE PROTECTION      Chemical Type Goggles
OTHER PROTECTIVE EQUIPMENT      *		

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	
Do Not Get in Eyes or on Skin.	
OTHER PRECAUTIONS	



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ADDRESS (Number, Street, City, State, and ZIP Code) 210 N. Allen St. - Centralia, MO 65240		
CHEMICAL NAME AND SYNONYMS Soda Lime Glass	TRADE NAME AND SYNONYMS Epoxiglas <sup>(R)</sup> Plug Kit Filler	
CHEMICAL FAMILY	FORMULA	

## SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
SiO <sub>2</sub>	72.5%	MgO	3.30%		
Al <sub>2</sub> O <sub>3</sub>	0.4%	K <sub>2</sub> O	0.1%		
CaO	9.75%	Oxides < 1%	0.25%		
Na <sub>2</sub> O	13.7%				

## SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	None	SPECIFIC GRAVITY (H <sub>2</sub> O=1)	2.48
VAPOR PRESSURE (mm Hg.)	None	PERCENT, VOLATILE BY VOLUME (%)	None
VAPOR DENSITY (AIR=1)		EVAPORATION RATE (_____ = 1)	
SOLUBILITY IN WATER			
APPEARANCE AND ODOR			

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	None	FLAMMABLE LIMITS	Lel	Uel
EXTINGUISHING MEDIA				
SPECIAL FIRE FIGHTING PROCEDURES				
UNUSUAL FIRE AND EXPLOSION HAZARDS	None			

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	15 mg/m <sup>3</sup>
EFFECTS OF OVEREXPOSURE	None
EMERGENCY AND FIRST AID PROCEDURES	None

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Hydrofluoric Acid Attacks Glass
INCOMPATIBILITY (Materials to avoid)			
HAZARDOUS DECOMPOSITION PRODUCTS			
None			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	
None	
WASTE DISPOSAL METHOD	Material can be placed in any container and used in any land fill area.

SECTION VIII - SPECIAL PROTECTION INFORMATION		
RESPIRATORY PROTECTION (Specify type)		
Any commercial make which collects dust is satisfactory.		
VENTILATION	LOCAL EXHAUST	SPECIAL
	MECHANICAL (General)	OTHER
PROTECTIVE GLOVES		EYE PROTECTION
None		None
OTHER PROTECTIVE EQUIPMENT		
None		

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	
When transferring material, care should be taken to avoid dusting.	
OTHER PRECAUTIONS	