

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

Form Approved
OMB No. 44-R1387

MATERIAL SAFETY DATA SHEET

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 Company		EMERGENCY TELEPHONE NO. 314-682-8578
ADDRESS (Number, Street, City, State, and ZIP Code) 210 N. Allen St., Centralia, MO 65240		
CHEMICAL NAME AND SYNONYMS 4.4' Isopropylidenediphenol-Epichlorohydrin Resin		TRADE NAME AND SYNONYMS Gloss Restorer-Component A
CHEMICAL FAMILY Epoxy Resin Solution		FORMULA

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE Epoxy Resin	50	None Established	METALLIC COATINGS		
SOLVENTS 1, 1, 1 Trichloroethane	50	350	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.)	176	SPECIFIC GRAVITY (H ₂ O=1)	1.238
VAPOR PRESSURE (mm Hg.) @ 20°C	100	PERCENT, VOLATILE BY VOLUME (%)	46.8
VAPOR DENSITY (AIR=1)	4.55	EVAPORATION RATE (_____=1)	4.1
SOLUBILITY IN WATER	Insol		
APPEARANCE AND ODOR	Clear Amber Liquid - ether like odor		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) (cc) No flash at 176°F (RE)	FLAMMABLE LIMITS	Lel	Uel
EXTINGUISHING MEDIA Water, CO₂, Foam, Dry Chemical			
SPECIAL FIRE FIGHTING PROCEDURES Self-contained respiratory equipment			
UNUSUAL FIRE AND EXPLOSION HAZARDS None			

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

350

EFFECTS OF OVEREXPOSURE

Anesthetic effects may occur in the range of 500-1000ppm

EMERGENCY AND FIRST AID PROCEDURES

If breathing stops, give artificial respiration. Get medical help. Inhalation-remove to fresh air, keep warm and quiet until recovery. Skin & eyes-flush with plenty of water. Get medical attention if irritation develops.

SECTION VI - REACTIVITY DATA

STABILITY

UNSTABLE

STABLE

X

CONDITIONS TO AVOID

Open flames, welding arcs (can cause thermal decomposition producing hydrogen chloride and phosgene.

INCOMPATIBILITY (Materials to avoid)

HAZARDOUS DECOMPOSITION PRODUCTS

Exposure to high temperatures or open flame generates hydrogen chloride and very small amounts of phosgene and chlorine.

HAZARDOUS
POLYMERIZATION

MAY OCCUR

WILL NOT OCCUR

X

CONDITIONS TO AVOID

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Mop, wipe or soak up with absorbent material using proper protective equipment, bury, keep out of water supply.

WASTE DISPOSAL METHOD

Bury away from water supply.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)

Conc. above 2% use self contained breathing apparatus

VENTILATION

LOCAL EXHAUST

X

MECHANICAL (General)

Provide ventilation to control to TLV)

SPECIAL

OTHER

PROTECTIVE GLOVES

Impervious gloves

EYE PROTECTION

Splash-proof goggles

OTHER PROTECTIVE EQUIPMENT

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Handle with reasonable care. Avoid breathing vapors in concentrations over 350ppm with a maximum peak of 500ppm.

OTHER PRECAUTIONS

Store in cool dry place.

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

Form Approved
OMB No. 44-R1387

MATERIAL SAFETY DATA SHEET

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 Company		EMERGENCY TELEPHONE NO. 314-682-8578
ADDRESS (Number, Street, City, State, and ZIP Code) 210 N. Allen St., Centralia, MO 65240		
CHEMICAL NAME AND SYNONYMS		TRADE NAME AND SYNONYMS Gloss Restorer-Component B
CHEMICAL FAMILY Complex - Polyamines Solution	FORMULA	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE	52	None Established	METALLIC COATINGS		
SOLVENTS Ethylene Glycol Mono-ethylene acetate +	29	100	FILLER METAL PLUS COATING OR CORE FLUX		
Acetone MIBk & Toulene	19	100	OTHERS		
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	310	SPECIFIC GRAVITY (H ₂ O=1)	0.986
VAPOR PRESSURE (mm Hg.)	18	PERCENT, VOLATILE BY VOLUME (%)	48
VAPOR DENSITY (AIR=1)	1	EVAPORATION RATE (_____ =1)	0.3
SOLUBILITY IN WATER	Moderate		
APPEARANCE AND ODOR Clear Amber Liquid - ether like odor			

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) (cc) No flash at 2050F	FLAMMABLE LIMITS	Lel	Uel
EXTINGUISHING MEDIA Water, CO₂, Foam, Dry Chemical			
SPECIAL FIRE FIGHTING PROCEDURES Use self-contained breathing apparatus			
UNUSUAL FIRE AND EXPLOSION HAZARDS Vapors are heavier than air and may travel along ground or be moved by ventilation and ignited by heat, pilot lights, other flames and ignition sources at locations distant from material handling point.			

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE	100
EFFECTS OF OVEREXPOSURE Severe skin and eye irritation, breathing - vapors can cause irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness. Swallowing can cause irritation, nausea, diarrhea.	
EMERGENCY AND FIRST AID PROCEDURES Call a physician. Inhalation-remove to fresh air, give artificial respiration and oxygen if necessary. Ingestion-if conscious, give plenty of water or milk. Do not induce vomiting. Skin & eyes-flush with plenty of water for at least 15 minutes. Remove contaminated clothing, wash before reuse. Discard contaminated shoes.	

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Open flames, welding arcs (can cause thermal decomposition)
INCOMPATIBILITY (Materials to avoid) Strong oxidizing agents and strong alkalis			
HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide, carbon dioxide, various hydrocarbons			
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 Remove all sources of ignition.
Absorb on combustible material for proper disposal.
WASTE DISPOSAL METHOD Incineration in accordance with local pollution regulations contaminated absorbent may be deposited in a landfill in accordance with local state and federal regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type) NIOSH approved organic vapor respirator		
VENTILATION	LOCAL EXHAUST X	SPECIAL
	MECHANICAL (General) Provide ventilation to control to TLV	OTHER
PROTECTIVE GLOVES Impervious Gloves		EYE PROTECTION Splash-proof Goggles
OTHER PROTECTIVE EQUIPMENT		

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Danger! Corrosive, may cause burns, harmful if swallowed. Store in cool dry place away from heat, sparks and open flame. Keep container closed when not in use. Use
OTHER PRECAUTIONS adequate ventilation.
Wash thoroughly after handling.