



J-B WELD COMPANY

Phone 214/885-7696

P. O. Box 483

Sulphur Springs, Texas 75482



CHEMICAL NAME

SECTION I IDENTIFICATION OF PRODUCT

TRADE NAME Epoxy Steel Hardener	PRODUCT CODE 48105 48008 48171
SYNONYM OR CROSS REFERENCE Epoxy Hardener	PROPER SHIPPING NAME Resin Solution

SECTION II HAZARDOUS INGREDIENTS

MATERIAL Polyamide Resin Polyamine See Page 3	NATURE OF HAZARD Eye & respiratory tract irritant Eye & respiratory tract irritant
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SECTION III PHYSICAL DATA

BOILING POINT N/A	MELTING POINT N/A
VAPOR PRESSURE N/A	SPECIFIC GRAVITY 1.15
VAPOR DENSITY (AIR = 1) >1	PERCENT VOLATILE BY VOLUME (%) 95%
WATER SOLUBILITY not soluble	EVAPORATION RATE (g/hy) ether = 1
APPEARANCE White Paste	

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (method used) COC 350°F	FLAMMABLE LIMITS N.E.	Lower -	Upper -
FIRE EXTINGUISHING MEDIA Water, CO ₂ , Dry Chemical	SPECIAL FIRE-FIGHTING PROCEDURES Self contained breathing apparatus with full face piece		
UNUSUAL FIRE AND EXPLOSION HAZARD	Unknown		

SECTION V HEALTH HAZARD

THRESHOLD LIMIT VALUE Product threshold not established. Component TLV-5ppm.

HEALTH HAZARDS Overexposure may be irritating to skin and eyes and respiratory system. Prolonged or repeated exposure may cause asthma, skin sensitization, or other allergic response.

FIRST AID PROCEDURES

EYES: Immediately flush with water, call physician.

SKIN: Immediately wash with soap and water. If irritation continues call physician.

INHALATION: Remove victim to fresh air, apply artificial respiration if necessary, call physician.

INGESTION: Do not induce vomiting, administer milk or water if victim is conscious. Call physician.

SECTION VI REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID Open flames, sparks, excess heat (above 100°F) and/or contact with strong oxidizing agents or alkalies.
	STABLE	X	

INCOMPATIBILITY (materials to avoid)

Strong acids, strong oxidizing agents, or strong alkalies

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon Monoxide, Carbon Dioxide, Acrid Fumes

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID Strong acids and amines and amides
	WILL NOT OCCUR	X	

SECTION VII SPILL AND DISPOSAL PROCEDURES

SPILLS Pick up large spills with absorbants and place in proper container for disposal. Small spills, wash and clean with soap and water.

DISPOSAL Disposal method must comply with Local, State and Federal Regulations.

SECTION VIII PROTECTION INFORMATION

RESPIRATORY PROTECTION (specify type) If TLV is exceeded, use NIOSH approved respirator.

VENTILATION Use in well ventilated area.	LOCAL Exhaust	SPECIAL See Section IX
	MECHANICAL (general) Acceptable	OTHER

PROTECTIVE GLOVES Neoprene or equivalent recommended

EYE PROTECTION Goggles recommended

OTHER PROTECTIVE EQUIPMENT

Safety showers and eye wash fountains should be available

SECTION IX HANDLING AND STORAGE PRECAUTIONS

STORAGE & HANDLING Keep away from extreme heat, open flames, or other sources of ignition. Use with adequate ventilation.

Danger: Avoid contact with eyes and avoid breathing vapors.

MISCELLANEOUS Do not flame cut, braze, weld, or melt empty containers.

Date issued: 3/23/87 Revision: _____ PMC

The information in this Material Safety Data Sheet has been compiled from our experience and data presented in various technical publications. It is the users responsibility to determine the suitability of this information for the adoption of safety precautions as may be necessary. We reserve the right to revise Material Safety Data Sheets.

PRODUCT RATING

HEALTH

2

HMIS LABEL CODE:

FLAMMABILITY

1

0 = least hazard to
4 = greatest hazard

REACTIVITY

1

J B Weld
 PRODUCT: Epoxy Steel Hardener

SECTION II - LIST OF INGREDIENTS

	Weight % Range:	CAS #	TLV/PEL
Polyamide Resin	20-25%	N.E.	N.E.
Aliphatic Polyamine	1-6%	N.E.	N.E.
Furfuryl Alcohol	2-7%	98-00-0	ACGIH TLV-5ppm OSHA PEL-50ppm
Limestone	35-40%	1317-65-3	ACGIH TWA-10mg/m ³ OSHA PEL-15MPPCF
Barium Sulfate	22-27%	7727-43-7	ACGIH TWA-10mg/m ³ OSHA PEL-15 MPPCF
Magnesium Silicate	2-7%	14807-96-6	ACGIH TWA-2mg/m ³ OSHA PEL-20 MPPCF
Titanium Dioxide	1-6%	13463-67-7	ACGIH TWA-10mg/m ³ OSHA PEL-15mg/m ³
All other ingredients are less than 1% and are non-hazardous or trade secrets.			
CARCINOGENICITY	NTP	IARC	OSHA
None			
N.E. not established			
PMC:dw 3/23/87			



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SECTION I IDENTIFICATION OF PRODUCT

TRADE NAME Epoxy Steel Resin	PRODUCT CODE 48170 48102 48009
SYNONYM OR CROSS REFERENCE Epoxy Resin	PROPER SHIPPING NAME Resin Solution

SECTION II HAZARDOUS INGREDIENTS

MATERIAL Bisphenol A-Epichlorohydrin Resin See Page 3	NATURE OF HAZARD Eye and Skin Irritant
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SECTION III PHYSICAL DATA

BOILING POINT N/A	MELTING POINT N/A
VAPOR PRESSURE N/A	SPECIFIC GRAVITY 1.17
VAPOR DENSITY (AIR = 1) > 1	PERCENT VOLATILE BY VOLUME (%) Unknown
WATER SOLUBILITY Not Soluble	EVAPORATION RATE (ethyl ether = 1) <
APPEARANCE Dark Smooth Paste	

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (method used) COC 200°F	FLAMMABLE LIMITS N/A	Lower	Upper
FIRE EXTINGUISHING MEDIA Water, CO ₂ , Dry Chemical			
SPECIAL FIRE-FIGHTING PROCEDURES piece	Self contained breathing apparatus with full face		
UNUSUAL FIRE AND EXPLOSION HAZARD Unknown			

SECTION V HEALTH HAZARD

THRESHOLD LIMIT VALUE Product TLV not established. Component TLV is 5mg/m³

HEALTH HAZARDS May cause skin sensitization or allergies to susceptible individuals. May cause temporary eye irritation.

FIRST AID PROCEDURES

- EYES: Flush with excess water, call physician.
 SKIN: Wash with soap and water, if irritation continues call physician.
 INHALATION: Remove patient to fresh air, apply artificial respiration if necessary, call physician.
 INGESTION: Induce vomiting and call physician.

SECTION VI REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID Open flames, sparks, excessive heat (over 100° F) and/or contact with strong acids or alkalies.
	STABLE	X	
INCOMPATIBILITY (materials to avoid) Strong acids, amines, or amides			
HAZARDOUS DECOMPOSITION PRODUCTS Carbon Dioxide, Carbon Monoxide, Toxic Fumes			
HAZARDOUS POLYMERIZATION	MAY OCCUR	X	CONDITIONS TO AVOID Strong acids, alkalies, epoxy resins, direct contact under uncontrolled conditions
	WILL NOT OCCUR		

SECTION VII SPILL AND DISPOSAL PROCEDURES	
SPILLS	Pick up large spills with inert absorbents and place in proper container for disposal. Wash and clean up small spills with water and detergent.
DISPOSAL	Disposal must comply with Local, State, and Federal Regulations.

SECTION VIII PROTECTION INFORMATION		
RESPIRATORY PROTECTION (specify type)	If TLV is exceeded, NIOSH approved respiratory mask is recommended.	
VENTILATION Use in well ventilated area	LOCAL Exhaust	SPECIAL See Section IX
	MECHANICAL (general) Acceptable	OTHER
PROTECTIVE GLOVES Neoprene or equivalent	EYE PROTECTION Goggles	
OTHER PROTECTIVE EQUIPMENT Safety shower and eye wash fountain should be available		

SECTION IX HANDLING AND STORAGE PRECAUTIONS	
STORAGE & HANDLING	Keep away from extreme heat, open flames, or other source of ignition. Do not store above 100° F. Use with adequate ventilation. Danger: Avoid contact with eyes, avoid breathing vapors.

MISCELLANEOUS
Do not flame cut, braze, weld, or melt empty container.

Date issued: 3/23/87

Revision:

PMC

The information in this Material Safety Data Sheet has been compiled from our experience and data presented in various technical publications. It is the user's responsibility to determine the suitability of this information for the adoption of safety precautions as may be necessary. We reserve the right to revise Material Safety Data Sheets from time to time as new technical information becomes available. The user has the responsibility to contact the company to make sure that the sheet is the latest one issued.



PRODUCT RATING

HMIS LABEL CODE:

0 = least hazard to
4 = greatest hazard

HEALTH

FLAMMABILITY

REACTIVITY

2

1

1

J B Weld

PRODUCT: Epoxy Steel Resin

SECTION 11 - LIST OF INGREDIENTS

	Weight % Range:	CAS #	TLV/PEL
Epoxy Resin	37-42%	25068-38-6	N.E.
Limestone	36-41%	1317-65-3	ACGIH TWA-10mg/m ³ OSHA PEL-15MPPCF
Iron Powder	15-20%	N.E.	ACGIH TLV-15mg/m ³ OSHA PEL-15 MPPCF
Aluminum Powder	1-5%	7429-90-5	ACGIH TLV-5mg/m ³ OSHA PEL-15 MPPCF
All other ingredients are less than 1%, non-hazardous, or trade secrets.			
CARCINOGENICITY	NTP	IARC	OSHA
None			
N.E. not established			
N/A not applicable			
PMC:dw 3/23/87			
PMC:dw 3/23/87			