

# MSDS

## SECTION 1 – Chemical Product and Company Identification

J-B Weld Company

P.O. Box 483  
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Tel: (903) 885-7696  
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<b>PRODUCT NAME:</b>	<b>JB Weld Epoxy Steel Resin</b>
<b>PRODUCT CODE:</b>	<b>(48009), 48102, 48153, 48170</b>
<b>SYNONYM/CROSS REFERENCE:</b>	<b>Epoxy Steel Resin</b>
<b>SCHEDULE B NUMBER:</b>	<b>3214.10.0090</b>

## SECTION 2 – Hazard Identification

OVEREXPOSURE EFFECTS:

ACUTE EFFECTS:

EYES: Contact with eyes can cause irritation, redness, tearing, blurred vision, and/or swelling.

SKIN: Contact with skin can cause irritation, (minor itching, burning and/or redness), Dermatitis, defatting may be readily absorbed through the skin.

INHALATION: Inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness and/or asphyxiation. Aspiration of material into lungs may result in chemical pneumonitis which can be fatal.

INGESTION: Ingestion can cause gastrointestinal irritation, nausea, vomiting, diarrhea.

PRIMARY ROUTES OF EXPOSURE: skin, inhalation, eyes

## SECTION 3 – Composition, Information or Ingredients

<u>INGREDIENTS</u>	<u>WGT%</u>	<u>CAS #</u>
Calcium Carbonate	40-50%	1317-65-3, 471-34-1
Iron Powder	10-20%	65997-19-5
Epoxy Resin	30-40%	25068-38-6
Aromatic Hydrocarbons	1-5%	64742-94-5

## SECTION 4 – First Aid Measures

INHALATION: If inhaled, remove victim from exposure to a well-ventilated area. Make them comfortably warm, but not hot. Use oxygen or artificial respiration as required. Consult a physician.

SKIN: For skin contact, wash promptly with soap and excess water.

EYES: For eye contact, flush promptly with excess water for at least fifteen minutes. Consult a physician.

INGESTION: If ingested, do not induce vomiting. Give victim a glass of water. Call a physician immediately.

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## **SECTION 5 – Fire-Fighting Measures**

**FIRE EXTINGUISHING MEDIA:** Carbon Dioxide, Dry Chemical, Foam

**SPECIAL FIRE FIGHTING PROCEDURES:** Fight like a fuel oil fire. Cool fire exposed containers with water spray. Firefighter should wear OSHA/NIOSH approved self-contained breathing apparatus.

**UNUSUAL FIRE AND EXPLOSION HAZARD:** Closed containers exposed to high temperatures, such as fire conditions may rupture.

## **SECTION 6 – Accidental Release Measures**

**SPILLS, LEAK OR RELEASE:** Ventilate area. Remove all possible sources of ignition. Avoid prolonged breathing of vapor. Contain spill with inert absorbent.

## **SECTION 7 – Handling and Storage**

**STORAGE AND HANDLING:** Use with adequate ventilation. Avoid contact with eyes and skin. Avoid breathing vapors. Do not store the product above 100°F/38°C. Do not flame, cut, braze weld or melt empty containers. Keep the product away from heat, open flame, and other sources of ignition. Avoid contact with strong acids, alkalis, and oxidizers.

## **SECTION 8 – Exposure Controls and Personal Protection**

<b><u>INGREDIENTS</u></b>	<b><u>CAS #</u></b>	<b><u>TLV #</u></b>
Calcium Carbonate	1317-65-3, 471-34-1	ACGIH TWA 10 mg/m <sup>3</sup> OSHA PEL 15 mppcf
Iron Powder	65997-19-5	AGIH TLV: 15 mg/ m <sup>3</sup> OSHA PEL 15 mppcf
Epoxy Resin	25068-38-6	N/E
Aromatic Hydrocarbons	64742-94-5	ACGIH TLV 100 ppm OSHA PEL 100 ppm

**RESPIRATORY PROTECTION:** If component TLV limits are exceeded, use NIOSH/MSHA approved respirator to remove vapors. Use an air-supplied respirator if necessary. With general room ventilation, does not require a respirator.

**VENTILATION:** Use adequate ventilation in volume and pattern to keep TLV/PEL below recommended levels. Explosion-proof ventilation may be necessary.

**PROTECTIVE GLOVES:** To prevent prolonged exposure use rubber gloves; solvents may be absorbed through the skin.

**EYE PROTECTION:** Safety Glasses or goggles with splash guards or side shields.

**OTHER PROTECTIVE EQUIPMENT:** Wear protective clothing as required to prevent skin contact.

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## **ACTION 9 – Physical and Chemical Properties**

FLASH POINT: >200°F/ 93°C Seta Flash Closed cup  
LOWER FLAMMABLE LIMIT %: N/E  
UPPER FLAMMABLE LIMIT %: N/E  
APPEARANCE: Dark gray or black smooth paste  
SPECIFIC GRAVITY: 1.80  
VAPOR PRESSURE (mmHG): Heavier than air  
BOILING POINT: N/A  
VAPOR DENSITY: Heavier than air  
EVAPORATION RATE (Ethyl Ether = 1): Slower than Ethyl Ether  
VOLATILES BY WEIGHT: Approximately 2.5%  
SOLUBILITY IN WATER: None  
VOC: Grams/Liter = 45  
Lbs/Gallon = 0.37

## **SECTION 10 – Stability and Reactivity**

STABILITY: Stable  
CONDITIONS TO AVOID: Open flames, sparks, heat, electrical and static discharge.  
INCOMPATIBILITY MATERIALS TO AVOID: Strong acids, alkalis, oxidizers.  
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Dioxide, Carbon Monoxide, and Carbon.  
HAZARDOUS POLYMERIZATION: Will not occur.

## **SECTION 11 – Toxicological Information**

### **CHRONIC EFFECTS:**

Overexposure to this material has apparently been known to cause the following effects in lab animals: Skin sensitization.

CARCINOGEN: YES  NO   
TERATOGEN: YES  NO   
MUTAGEN: YES  NO

## **SECTION 12 – Ecological Information**

MARINE POLLUTANT: None.

## **SECTION 13 – Disposal Considerations**

WASTE DISPOSAL: Dispose of in accordance with local, state, and federal regulations.

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## **SECTION 14 – Transport Information**

### **For Ground Transport: In USA**

Not Regulated.

### **For Air Transport:**

Not Regulated.

### **For Ocean Transport:**

Not Regulated.

## **SECTION 15 – Regulatory Information**

### **CALIFORNIA PROPOSITION 65:**

Trace amounts of epichlorohydrin, a chemical known to the State of California to cause cancer, is present in this product. However, given the low level and application of this product, typical uses do not constitute a significant risk under the standard.

### **SECTION 313 SUPPLIER NOTIFICATION:**

This product contains the following toxic chemicals subject to the reporting requirements of the Emergency Planning and Community Right-To-Know Act of 1986 and 40 CFR 372:

<u>CHEMICAL NAME</u>	<u>CAS</u>	<u>% BY WGT</u>
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N/A

This information must be included in all MSDS that are copied and distributed for this chemical.

## **SECTION 16 – Other Information**

HMIS RATING:	Health	2	4 = Extreme
	Fire	1	3 = High
	Reactivity	1	2 = Moderate
			1 = Slight
			0 = Insignificant

Personal Protection - See Section VIII

## **ABBREVIATIONS**

IARC = International Agency for Research on Cancer  
ACGIH = American Conference of Governmental Industrial Hygienists  
NIOSH = National Institute of Occupational Safety and Health  
TLV = Threshold Limit Value  
PEL = Permissible Emission Level  
DOT = Department of Transportation  
NTP = National Toxicology Program  
N/AV = Not Available  
N/AP = Not Applicable  
N/E = Not Established  
N/D = Not Determined

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PREPARED BY:

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New Format

The information in the Material Safety Data Sheet has been compiled from our experience and from data presented in various technical publications. It is the user's responsibility to determine the suitability of this information for the adoption of the 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 MSDS is the latest one issued.