



# J-B WELD COMPANY

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 SULPHUR SPRINGS, TEXAS 75483



## MATERIAL SAFETY DATA SHEET

Product Code: 48102 J B Weld (48009)

Revision Date: 3/9/2000

Supercedes Form Dated: 02/19/98

TRADE NAME ..... J B Weld Epoxy Steel Resin  
 SYNONYM OR CROSS REFERENCE ..... Epoxy Resin  
 SCHEDULE B#: ..... 3506.91.0000-3

### HAZARDOUS INGREDIENTS

| Materials or Components | % (w/w) | CAS No.    | Hazard data   |
|-------------------------|---------|------------|---|
| Calcium Carbonate       | 40-50 % | 1317-85-3  | ACGIH: TWA 10 mg/m <sup>3</sup><br>OSHA: PEL 15 mppcf |
| Iron Powder             | 10-20 % | 65987-19-5 | ACGIH: TLV 15 mg/m <sup>3</sup><br>OSHA: PEL 15 mppcf |
| Epoxy Resin             | 30-40%  | 25068-38-6 | N/E   |

### PHYSICAL PROPERTIES

|  |  |
|--|--|
| BOILING POINT..... N/A                           | MELTING POINT.....                                     |
| VAPOR PRESSURE..... N/A                          | SPECIFIC GRAVITY (Water = 1)..... 1                    |
| VAPOR DENSITY (Air = 1)..... >1                  | VOLATILE BY VOLUME.....                                |
| WATER SOLUBILITY..... Not Soluble                | EVAPORATION RATE (Ethyl Ether = 1).....<br>Slower than |
| APPEARANCE ..... Dark gray or black smooth paste | V.O.C..... Nc  |

### FIRE AND EXPLOSION DATA

|  |  |
|--|--|
| FLASH POINT °F.....                    | >200°F/93°C Seta CC  |
| FIRE EXTINGUISHING MEDIA.....          | CO <sub>2</sub> , Dry Chemicals, Foam.   |
| SPECIAL FIRE FIGHTING PROCEDURES.....  | Firefighters wear self-contained breathing apparatus.<br>Fight like a fuel oil fire.   |
| UNUSUAL FIRE AND EXPLOSION HAZARD..... | Closed containers exposed to high temperatures such as<br>fire conditions may rupture. |
| FLAMMABLE LIMITS.....                  | N/E  |



**HEALTH HAZARD INFORMATION**

THRESHOLD LIMIT VALUE..... Product TLV not established. Component values in  
HEALTH HAZARDS..... Section II  
May cause minor skin or eye irritation.

**CALIFORNIA PROPOSITION 65 STATEMENT:**

Trace amounts of Epichlorohydrin, a substance which is a human cancer hazard, may be contained in this product. The level in this product does not constitute a significant risk.

**CALIFORNIA PROPOSITION 65:**

Trace amounts of some chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm may be present in this product.

**FIRST AID PROCEDURES:**

SKIN CONTACT..... Wash with soap and excess water. Obtain medical attention if irritation occurs.  
EYE CONTACT..... Flush promptly with excess water for 15 minutes. Call physician.  
IF SWALLOWED..... Do not induce vomiting.- Call a physician. If conscious give a glass of water to person.  
INHALATION..... Remove from contaminated areas, apply artificial respiration if necessary, call a physician.

**TOXICITY**

ORAL (acute) (rats) ..... N/E ..ACUTE INTRAPERITONEAL (mice) .....  
INHALATION (acute) (rats) ..... N/E ..CHRONIC, SUBCHRONIC, ETC.: .....

**REACTIVITY DATA**

STABILITY..... Stable  
INCOMPATIBILITY..... Strong acids or alkalis  
HAZARDOUS DECOMPOSITION PRODUCTS..... Thermal decomposition will yield carbon monoxide and carbon dioxide  
HAZARDOUS POLYMERIZATION..... Will not occur  
CONDITIONS TO AVOID..... Open flames, sparks, and high temperatures

**SPILL AND DISPOSAL METHOD**

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED ..... Wash and clean up small spills with water and detergent. Pick up large spills with inert absorbent and place in a container for disposal.  
WASTE DISPOSAL METHOD ..... Disposal method must comply with local, state, and federal regulations.

**FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE EXPOSURE, OR ACCIDENT CALL DAY OR NIGHT, IN THE USA OR CANADA**

Chemtrec (USA) 1-800-424-9300 Canutec (Canada) 1-613-996-6666 (collect)

**SPECIAL PROTECTION INFORMATION**

|                                 |   |
|---------------------------------|---|
| RESPIRATORY PROTECTION.....     | With general room ventilation does not require any respiratory protection. If room ventilation is lacking, use NIOSH approved respirator. |
| VENTILATION REQUIREMENTS.....   | General room ventilation  |
| LOCAL.....                      | Exhaust   |
| MECHANICAL.....                 | Acceptable  |
| SPECIAL.....                    | None  |
| EYE.....                        | Safety glasses or goggles   |
| HAND.....                       | Neoprene or equivalent recommended  |
| OTHER PROTECTIVE EQUIPMENT..... | Eye wash fountain and safety shower should be available   |

**HANDLING AND STORAGE PRECAUTIONS**

|  |   |
|--|---|
| OTHER STORAGE AND HANDLING CONDITIONS..... | Store at ambient temperatures                                 |
| MISCELLANEOUS.....                         | HMIS RATING: Health = 2<br>Flammability = 1<br>Reactivity = 1 |
|  | CODE: Least Hazardous = 0, Greatest Hazard = 4                |

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

NOTES: N/E = Not Established N/D = Not Determined N/A = Not Applicable

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 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 this sheet is the latest one issued.



## J-B WELD COMPANY

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 SULPHUR SPRINGS, TEXAS 75483



### SECTION I - IDENTIFICATION OF PRODUCT

PRODUCT NAME: **J B WELD EPOXY STEEL HARDENER**  
 PRODUCT CODE: 48105 (48008) J B Weld  
 SYNONYM/CROSS REFERENCE: Epoxy Hardener  
 SCHEDULE B NUMBER: 3506.91.0000-3

### SECTION II - HAZARDOUS INGREDIENTS

| INGREDIENTS        | WGT%  | CAS #                 | TLV/PEL                                 |
|--------------------|-------|-----------------------|---|
| Calcium Carbonate  | 35-40 | 1317-65-3             | ACGIH TWA 10 mg/m3<br>OSHA PEL 15 mppcf |
| Barium Sulfate     | 20-30 | 7727-43-7             | ACGIH TWA 10 mg/m3<br>OSHA PEL 2 mppcf  |
| Magnesium Silicate | 2-7   | 14807-96-6            | ACGIH TWA 2 mg/m3<br>OSHA PEL 20 mppcf  |
| Titanium Dioxide   | 1-6   | 13463-67-7            | ACGIH TWA 10 mg/m3<br>OSHA PEL 20 mg/m3 |
| Furfuryl Alcohol   | 1-5   | 98-00-0               | ACGIH TWA 10 ppm                        |
| Polyamide Resin    | 15-25 | 68410-23-1            | N/E                                     |
| Aminophenol        | 1-5 % | Supplier Trade Secret | N/E                                     |

### SECTION III - PHYSICAL DATA

APPEARANCE: White Paste  
 SPECIFIC GRAVITY: 1.78  
 VAPOR PRESSURE (mmHG): N/Av  
 BOILING POINT: N/Av  
 VAPOR DENSITY: Heavier than air  
 EVAPORATION RATE (Ethyl Ether = 1): Slower than Ethyl Ether  
 VOLATILES BY WEIGHT: Nil  
 SOLUBILITY IN WATER: Not Soluble  
 VOC: Grams/Litre = 72  
 Lbs/Gallon = 0.6



**SECTION IV - FIRE AND EXPLOSION DATA**

**FLASH POINT:** 200 F/ 93 C Seta Flash Closed cup  
**LOWER FLAMMABLE LIMIT %:** N/E  
**UPPER FLAMMABLE LIMIT %:** N/E  
**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 V - HEALTH HAZARD/TOXICOLOGICAL PROPERTIES**

**OVEREXPOSURE EFFECTS:**

**ACUTE EFFECTS:**

**EYES:** Contact with eyes can cause severe irritation, redness, tearing, blurred vision, and/or swelling. May cause eye damage.

**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.

**CHRONIC EFFECTS:**

Overexposure to this material has apparently been known to cause the following effects in lab animals:  
Eye damage, skin damage.

**CARCINOGEN:** YES \_\_\_ NO X  
**TERATOGEN:** YES \_\_\_ NO X  
**MUTAGEN:** YES \_\_\_ NO X

**PRIMARY ROUTES OF EXPOSURE:** skin, inhalation

**FIRST AID:**

**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.

**SECTION VI - REACTIVITY DATA**

**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 VII - SPILL AND DISPOSAL PROCEDURE**

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

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

**SECTION VIII - PROTECTION INFORMATION**

**RESPIRATORY PROTECTION:** If component TLV limits are exceeded, use NIOSH/MSHA approved respirator to remove vapors. Use an air-supplied respirator if necessary.

**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.

**SECTION IX - HANDLING AND STORAGE PRECAUTIONS**

**STORAGE AND HANDLING:** Use with adequate ventilation. Avoid contact with eyes and skin. Avoid breathing vapors. Do not store the product above 100F/38C. 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 X - ADDITIONAL INFORMATION**

**SHIPPING INFORMATION:** Please comply with DOT regulations in USA

**HMIS RATING:**

|            |   |                   |
|------------|---|-------------------|
| Health     | 2 | 4 = Extreme       |
| Fire       | 1 | 3 = High          |
| Reactivity | 1 | 2 = Moderate      |
|            |   | 1 = Slight        |
|            |   | 0 = Insignificant |

Personal Protection - See Section VIII

**CALIFORNIA PROPOSITION 65:**

Trace amounts of some chemicals known to the State of California to cause cancer, birth defects or other reproductive harm may be present in this product.

**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:

| CHEMICAL NAME | CAS | % BY WGT |
|---------------|-----|----------|
|---------------|-----|----------|

NOT APPLICABLE

THIS INFORMATION MUST BE INCLUDED IN ALL MSDSs THAT ARE COPIED AND DISTRIBUTED FOR THIS CHEMICAL

**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

PREPARED ON  
SUPERCEDES

March 9, 2000  
June 18, 1998

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