

U S CHEMICAL & PLASTICS, INC  
AN ALCO INDUSTRIES COMPANY  
600 NOVA DRIVE SE  
MASSILLON, OH 44646

PH: (AVAILABLE ON REQUEST)

FOR CHEMICAL EMERGENCY:  
CHEMTREC: 1-800-424-9300  
CANUTEC: 1 -613-996-6666 (FOR CANADA CALL COLLECT)

### SECTION I - IDENTIFICATION OF PRODUCT

PRODUCT NAME: JB WELD - EPOXY STEEL RESIN

PRODUCT CODE: (48009), 48102, 48170

SYNONYM/CROSS REFERENCE: RESIN SOLUTION

SCHEDULE B NUMBER: 3506.91.0000

### SECTION II - HAZARDOUS INGREDIENT

INGREDIENTS	WGT %	CAS #	TLV/PEL
CALCIUM CARBONATE	40-50 %	1317-65-3	ACGIH TWA: 10 MG/M3 OSHA PEL: 15 MPPCF
IRON POWDER	10-20 %	65997-19-5	ACGIH TLV: 15 MG/M3 OSHA PEL: 15 MPPCF
EPOXY RESIN	30-40 %	25068-38-6	N/E
AROMATIC HYDROCARBONS	1-5 %	64742-94-5	N/E

### SECTION III - PHYSICAL DATA

APPEARANCE: DARK GRAY OR BLACK SMOOTH PASTE

SPECIFIC GRAVITY: 1.80

VAPOR PRESSURE (MMHG): N/AV

BOILING POINT: N/E

VAPOR DENSITY: HEAVIER THAN AIR

EVAPORATION RATE (ETHYL ETHER = 1): SLOWER THAN ETHYL ETHER

VOLATILES BY WEIGHT: N/D

SOLUBILITY IN WATER: NOT SOLUBLE

VOC:  
GRAMS/LITRE = NIL  
LBS/GALLON = NIL

### SECTION IV - FIRE AND EXPLOSION DATA

FLASH POINT: >200 DEG. F/ 93 DEG. 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.

FIRE FIGHTER 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 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.

CHRONIC EFFECTS:

OVEREXPOSURE TO THIS MATERIAL HAS APPARENTLY BEEN KNOWN TO CAUSE THE FOLLOWING EFFECTS IN LAB ANIMALS:  
SKIN SENSITIZATION, RESPIRATORY SYSTEM IRRITATION.

CARCINOGEN:

YES ( )

NO (X)

TERATOGEN:

YES ( )

NO (X)

MUTAGEN:

YES ( )

NO (X)

PRIMARY ROUTES OF EXPOSURE: SKIN, INHALATION, EYES

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 & HEAT.

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. WITH GENERAL VENTILATION, DOES NOT REQUIRE A RESPIRATOR.

VENTILATION:

USE ADEQUATE VENTILATION IN VOLUME AND PATTERN TO KEEP TLV/PEL BELOW RECOMMENDED LEVELS.

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 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 X - ADDITIONAL INFORMATION**

SHIPPING INFORMATION: PLEASE COMPLY WITH DOT REGULATIONS IN USA

## HMIS RATING:

HEALTH 2  
FIRE 1  
REACTIVITY 1  
PERSONAL PROTECTION SEE SECTION VIII

4 = EXTREME  
3 = HIGH  
2 = MODERATE  
1 = SLIGHT  
0 = INSIGNIFICANT

## CALIFORNIA PROPOSITION 65:

TRACE AMOUNTS OF EPICHLORIDYDRIN, A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, ARE 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:

CHEMICAL NAME	CAS	% BY WGT
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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 BY:

U S CHEMICAL & PLASTICS, INC  
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PREPARED ON: JUNE 1, 2007

SUPERCEDES APRIL: 20, 2004

REASON FOR UPDATE: CHANGE TO SECTION X, FORMAT CHANGE

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.