

U S CHEMICAL & PLASTICS  
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: J B WELD EPOXY STEEL HARDENER

PRODUCT CODE: (48008), 48105 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	30-40 %	1317-65-3	ACGIH TWA: 10 MG/M3 OSHA PEL: 15 MPPCF
BARIUM SULFATE	20-30 %	7727-43-7	ACGIH TWA: 10 MG/M3 OSHA PEL: 2 MPPCF
MAGNESIUM SILICATE	5-10 %	14807-96-6	ACGIH TWA: 2 MG/M3 OSHA PEL: 20 MPPCF
TITANIUM DIOXIDE	1-5 %	13463-67-7	ACGIH TWA: 10 MG/M3 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
AMINOPHENOLS	1-5 %	MIXTURE	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 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 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
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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  
AN ALCO INDUSTRIES COMPANY  
600 NOVA DRIVE SE  
MASSILLON, OH 44646,

PREPARED ON: JUNE 1, 2007

SUPERCEDES: MARCH 9, 2004

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