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MSDS

Common Name: KWIK EPOXY STEEL HARDENER-PART B, KWIK EPOXY STEEL RESIN-PART A**Manufacturer:** J-B WELD**MSDS Revision Date:** 2/5/2009**Grainger Item Number(s):** 2UV85**Manufacturer Model Number(s):**

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MSDS

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION



J-B WELD COMPANY
P.O. BOX 483
1130 COMO STREET
SULPHUR SPRINGS, TX 75482

TEL: (903) 885-7696

FAX: (903) 885-5911

PRODUCT NAME: J B WELD KWIK EPOXY STEEL HARDENER-PART B

PRODUCT CODE: (48094), 48148, 48150, 48178, 48191

SYNONYM/CROSS REFERENCE: EPOXY STEEL HARDENER

SCHEDULE B NUMBER: 3214.10.0090

SECTION 2 - HAZARD IDENTIFICATION



OVEREXPOSURE EFFECTS:

ACUTE EFFECTS:

EYES:

CONTACT WITH EYES CAN CAUSE SEVERE IRRITATION, POSSIBLE IRREPARABLE 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.

PRIMARY ROUTES OF EXPOSURE: SKIN, INHALATION

SECTION 3 - COMPOSITION, INFORMATION OR INGREDIENTS



INGREDIENTS	WGT%	CAS #
CALCIUM CARBONATE	5-10%	1317-65-3 471-34-1
NON-FIBROUS TALC	15-25%	14807-96-6
BARIUM SULFATE	35-45%	7727-43-7
ALKYL PHENOL	1-5%	25154-52-3
MERCAPTAN TERMINATED POLYMER	20-30%	TRADE SECRET
2,4,6 ((DIMETHYLAMINO)METHYL) PHENOL	1-5%	90-72-2
AMORPHOUS SILICA	1-5%	112945-52-5

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.

SECTION 5 - FIRE-FIGHTING MEASURES



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. 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 DEG. F/38 DEG. 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



INGREDIENTS	CAS #	TLV/PEL
CALCIUM CARBONATE	1317-65-3	ACGIH TWA: 10 MG/M3
	471-34-1	OSHA PEL: 15 MPPCF
NON-FIBROUS TALC	14807-96-6	ACGIH TWA: 2 MG/M3 OSHA PEL: 20 MPPCF
BARIUM SULFATE	7727-43-7	ACGIH TWA: 10 MG/M3 OSHA: 15 MG/M3 TOTAL DUST OSHA: 15 MG/M3 RESPIRABLE DUST
ALKYL PHENOL	25154-52-3	N/E
MERCAPTAN TERMINATED	TRADE SECRET	NE

POLYMER

2,4,6 ((DIMETHYLAMINO)
METHYL) PHENOL 90-72-2 N/E

AMORPHOUS SILICA 112945-52-5 ACGIH TWA: 10 MG/M3
5 MG/M3 (RESPIRABLE)

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 9 - PHYSICAL AND CHEMICAL PROPERTIES



APPEARANCE: WHITE PASTE

SPECIFIC GRAVITY: 1.87

VAPOR PRESSURE (MMHg): HEAVIER THAN AIR

BOILING POINT: N/AV

VAPOR DENSITY: HEAVIER THAN AIR

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

VOLATILES BY WEIGHT:

SOLUBILITY IN WATER: NONE

VOC:

GRAMS/LITER: 4

LBS/GALLON: 0.03

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:
EYE, SKIN, LUNG, AND CENTRAL NERVOUS SYSTEM DAMAGE.

CARCINOGEN:

YES ()
NO (X)

TERATOGEN:

YES ()
NO (X)

MUTAGEN:

YES ()
NO (X)

STYRENE CARCINOGENICITY:

STYRENE IS LISTED BY IARC TO BE A POSSIBLE CARCINOGEN. STYRENE STUDIES HAVE SHOWN THAT STYRENE CAUSES CANCER IN CERTAIN LABORATORY ANIMALS. HOWEVER, THERE IS INSUFFICIENT EVIDENCE TO CONCLUDE THAT STYRENE IS A HUMAN CARCINOGEN.

SECTION 12 - ECOLOGICAL INFORMATION

NOT A MARINE POLLUTANT

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:

DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.

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 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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N/AP

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

SECTION 16 - OTHER INFORMATION



HMIS RATING:
HEALTH 2
FIRE 1
REACTIVITY 1
PERSONAL PROTECTION SEE SECTION VIII

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

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:

J-B WELD COMPANY
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1130 COMO STREET
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DATE REVIEWED: FEBRUARY 5, 2009

DATE REVISED: FEBRUARY 5, 2009

REVISION: 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.

JB WELD-KWIK EPOXY STEEL HARDENER-48094.DOC

PRINT DATE: 9/22/2009

MSDS

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION



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P.O. BOX 483

1130 COMO STREET
SULPHUR SPRINGS, TX 75482

TEL: (903) 885-7696

FAX: (903) 885-5911

PRODUCT NAME: J B WELD KWIK EPOXY STEEL RESIN-PART A

PRODUCT CODE: (48009), 48149, 48151, 48177, 48190

SYNONYM/CROSS REFERENCE: EPOXY STEEL RESIN

SCHEDULE B NUMBER: 3214.10.0090

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



INGREDIENTS	WGT%	CAS #
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.

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 DEG. F/38 DEG. 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

INGREDIENTS	CAS#	TLV #
CALCIUM CARBONATE	1317-65-3, 471-34-1	ACGIH TWA: 10 MG/M3 OSHA PEL: 15 MPPCF
IRON POWDER	65997-19-5	AGIH TLV: 15 MG/ M3 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.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES



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

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 (X)

TERATOGEN:

YES ()

NO (X)

MUTAGEN:

YES ()

NO (X)

SECTION 12 - ECOLOGICAL INFORMATION



MARINE POLLUTANT: NONE.

SECTION 13 - DISPOSAL CONSIDERATIONS



WASTE DISPOSAL:

DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.

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:

CHEMICAL NAME	CAS	% BY WGT
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N/A

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SECTION 16 - OTHER INFORMATION



HMS RATING:

HEALTH 2

FIRE 1

REACTIVITY 1

4 = EXTREME

3 = HIGH
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
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