

OCT 20 2000

K3W09336

KIWOBOND 933 RAPID

MATERIAL SAFETY DATA SHEET

PRODUCT IDENTITY/TRADE NAME: KIWOBOND 933 RAPID

MANUFACTURER: KISSEL & WOLF, POB 1326, D6908 WIESLOCH, WEST GERMANY

IMPORTER: KIWO, INC.

ADDRESS: 1929 MARVIN CIRCLE, P.O. BOX 1009, SEABROOK, TX 77586

INFORMATION TELEPHONE NUMBER: 281-474-9777

HAZARD DATA SECTION

HAZARDOUS INGREDIENTS	% RANGE	CAS #
POLYURETHANE	3-23	NOT AVAILABLE
SYNTHETIC RESINS	2-22	NOT AVAILABLE-MIXTURE
ETHYL ACETATE	45-25	141-78-6
ACETONE	50-30	67-64-1

BOILING POINT: APPROX. 140°F VAPOR PRESSURE: 400 mm Hg @ 40°C (ACETONE)

VAPOR DENSITY EST 2.5 (AIR=1, ACETONE =2.0 ETHYL ACETATE=3.04)

SOLUBILITY: SOLIDS INSOLUBLE IN WATER , LIQUID FRACTION SOLUBLE

SPECIFIC GRAVITY: 0.883

APPEARANCE AND ODOR: ORANGE-RED SLIGHTLY VISCOUS LIQUID, ESTER ODOR

PHYSICAL HAZARD DATA

COMPRESSED GAS: NO

PYROPHORIC: NO

OXIDIZER: NO

ORGANIC PEROXIDE: NO

FLAMMABLE/COMBUSTIBLE: YES

FLASH POINT: 7°F (-14°C)

EXTINGUISHING MEDIA: DRY CHEMICAL, CO2, WATER FOG, FOAM.

SPECIAL FIREFIGHTING PROCEDURES: KEEP EXPOSED CONTAINERS COOL, MAY RUPTURE AND BURN

EXPLOSIVE: YES LEL: 2.2 % UEL: 12.6% (ESTIMATED, LEL FROM ETHYL ACETATE UEL FROM ETHYL ACETATE)

REACTIVITY/INCOMPATIBILITY: STABLE, AVOID STRONG OXIDIZERS

HAZARDOUS DECOMPOSITION PRODUCTS: CO, CO2, VARIOUS HYDROCARBONS

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SPECIAL STORAGE PRECAUTIONS: KEEP TIGHTLY CLOSED IN A COOL, WELL VENTILATED AREA. STORE AS AN OSHA FLAMMABLE LIQUID. GELS AT FREEZING TEMPERATURES, REVERSE BY WARMING TO ROOM TEMPERATURE.

HEALTH HAZARD DATA

ACUTE EFFECTS OF OVEREXPOSURE: AT HIGH CONCENTRATIONS, IRRITATING TO EYES, NOSE, AND THROAT, RESPIRATORY SYSTEM AND CENTRAL NERVOUS SYSTEM. DEPRESSION, HEADACHE, DIZZINESS MAY FOLLOW. DIRECT LIQUID CONTACT IS IRRITATING TO THE EYES AND SKIN.

CHRONIC EFFECTS OF OVEREXPOSURE: REPEATED /PROLONGED SKIN EXPOSURE MAY CAUSE DERMATITIS.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: EXISTING DERMATITIS

PRIMARY ROUTE(S) OF EXPOSURE: EYE, SKIN, INHALATION

LISTED CARCINOGEN: NO

EXPOSURE LIMITS	OSHA PEL	ACGIH TLV
ETHYL ACETATE	400 PPM	400 PPM
ACETONE	1000 PPM	750 PPM

FIRST AID: EYES -FLUSH WITH WATER FOR 15 MINUTES, SEE PHYSICIAN IF IRRITATION PERSISTS. SKIN-REMOVE ALL CONTAMINATED CLOTHING, WASH EXPOSED SKIN WELL WITH SOAP AND WATER. INHALATION- REMOVE VICTIM TO FRESH AIR.

SAFE HANDLING PROCEDURES

HYGIENIC PRACTICES: AVOID SKIN CONTACT.

SPECIAL PROTECTIVE MEASURES FOR REPAIR/MAINTENANCE OF CONTAMINATED EQUIPMENT: USE ADEQUATE VENTILATION AND FOLLOW ALL MSDS PRECAUTIONS.

SPILL HANDLING/CLEAN-UP: REMOVE ALL SOURCES OF IGNITION. USE RESPIRATORY PROTECTION IF CONCENTRATIONS ARE LIKELY TO EXCEED RECOMMENDED EXPOSURE LIMITS. ABSORB SPILL WITH NON-COMBUSTIBLE ABSORBANT, PLACE IN CONTAINERS FOR DISPOSAL. KEEP IGNITIONS SOURCES AWAY UNTIL ALL VAPORS HAVE DISSIPATED.

CONTROL MEASURES

RECOMMENDED ENGINEERING CONTROLS: USE LOCAL EXHAUST OR GENERAL VENTILATION TO KEEP EXPOSURE LEVELS BELOW LIMITS.

RECOMMENDED WORK PRACTICES: AVOID SKIN CONTACT, AVOID BREATHING VAPORS

RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

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RESPIRATORY PROTECTION: NOT USUALLY REQUIRED

GLOVES: PVC, NITRILE, OR OTHER IMPERVIOUS GLOVES AS NEEDED TO PREVENT SKIN CONTACT.

EYE PROTECTION: SAFETY GOGGLES RECOMMENDED

OTHER: EYE WASH, IMPERVIOUS APRON IF NEEDED.

REGULATORY STATUS

TSCA - ALL INGREDIENTS OF THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY

THE FOLLOWING CHEMICAL INGREDIENTS ARE REGULATED UNDER PROPOSITION 65 OF THE STATE OF CALIFORNIA

NONE

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372 (SARA 313 - TOXIC CHEMICAL RELEASE REPORTING.)

	%	CAS #
ACETONE	<50	67-64-1

VOC's 358g/l 2.98 lbs/gallon
CALCULATED EXCLUDING ACETONE WHICH IS NO LONGER LISTED AS A VOC

COMMENTS: FOR INDUSTRIAL / COMMERCIAL USE ONLY

DATE PREPARED/UPDATED: MARCH 16, 1999

PREPARED BY: CLARK KING, GENERAL MANAGER, KIWO AMERICA, LTD.