

**MATERIAL SAFETY DATA SHEET**


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PRODUCT IDENTITY/TRADE NAME: KIWOBOND 1000HMT

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 #                 |
|-----------------------|---------|-----------------------|
| SYNTHETIC RESINS      | 10-30   | NOT AVAILABLE-MIXTURE |
| ETHYL ACETATE         | 30-10   | 141-78-6              |
| ACETONE               | 50-70   | 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: 0.86

APPEARANCE AND ODOR: RED LIQUID, ESTER ODOR

**PHYSICAL HAZARD DATA**

COMPRESSED GAS: NO                      PYROPHORIC: NO

OXIDIZER: NO                              ORGANIC PEROXIDE: NO

FLAMMABLE/COMBUSTIBLE: YES      FLASH POINT: -18°C, 0°F

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

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

EXPLOSIVE: YES    LEL: 2.6 %    UEL: 12.8% (ESTIMATED, LEL FROM ACETONE, UEL FROM ACETONE)

REACTIVITY/INCOMPATIBILITY: STABLE, AVOID STRONG OXIDIZERS

HAZARDOUS DECOMPOSITION PRODUCTS: CO, CO2, VARIOUS HYDROCARBONS

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.

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**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.

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**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.

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**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

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.

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**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.)

|         | % RANGE | CAS #   |
|---------|---------|---------|
| ACETONE | <40%    | 67-64-1 |

VOC'S 173 G/L 1.44 LBS/GALLON

VOC'S CALCULATED, DISREGARDING ACETONE, AN EXEMPT COMPOUND  
ROC'S LESS WATER AND EXEMPT COMPOUNDS, AS REQUIRED BY SCAQMD AND VENTURA COUNTY APCD

ROC 503 G/L 4.2 LBS/GALLON

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COMMENTS: FOR INDUSTRIAL / COMMERCIAL USE ONLY

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DATE PREPARED/UPDATED: MAY 11, 2001  
PREPARED BY: CLARK KING, EXEC. V.P., KIWO, INC.