

MATERIAL SAFETY DATA SHEET

PRODUCT IDENTITY / TRADE NAME: KIWO LOW VOC INK WASH

MANUFACTURER: KIWO, INC.

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

INFORMATION TELEPHONE NUMBER: 281-474-9777

HAZARDOUS INGREDIENTS:	%RANGE	CAS NUMBER
NON-HAZARDOUS ESTER (TRADE SECRET)	75-95%	TRADE SECRET
N-METHYL PYROLLIDONE	05-25%	872-50-4

BOILING POINT: 400-600° F VAPOR PRESSURE: <0.1 MM HG
 SOLUBILITY: DISPERSES IN WATER, ONLY SLIGHTLY SOLUBLE DENSITY: 0.92 G/CM³
 APPEARANCE AND ODOR: LIGHT YELLOWISH LIQUID, ALMOST NO ODOR

PHYSICAL HAZARD DATA

COMPRESSED GAS: NO PYROPHORIC: NO OXIDIZER: NO

ORGANIC PEROXIDE: NO FLAMMABLE/COMBUSTIBLE: YES

FLASH POINT: ABOVE 200°F (93°C)

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

SPECIAL FIREFIGHTING PROCEDURES: WEAR SCBA AND FULL PROTECTIVE EQUIPMENT.
 COOL FIRE EXPOSED CONTAINERS WITH WATER FOG.

EXPLOSIVE: ONLY IN AEROSOL FORM LEL: N/A UEL: N/A

REACTIVITY/INCOMPATIBILITY: STRONG OXIDIZING AGENTS, STRONG ACIDS AND ALKALIES.

HAZARDOUS DECOMPOSITION PRODUCTS: COMBUSTION PRODUCTS CAN INCLUDE CO, CO₂,
 SULFUR CONTAINING COMPOUNDS.

SPECIAL STORAGE PRECAUTIONS: KEEP CONTAINERS CLOSED. STORE IN A COOL, DRY,
 WELL-VENTILATED PLACE AWAY FROM HEAR OR SOURCES OF IGNITION AND INCOMPATIBLE
 MATERIALS. RAGS SOAKED WITH THIS OR ANY SOLVENT PRESENT A FIRE HAZARD AND
 SHOULD BE STORED IN UL OR FM APPROVED CLOSED CONTAINERS. THIS PRODUCT
 CONTAINS ANTIOXIDANTS TO PREVENT OXIDATION AND SPONTANEOUS COMBUSTION.

HEALTH HAZARD DATA

ACUTE EFFECTS OF OVEREXPOSURE: IRRITATION OF EYES, SKIN, MUCOUS MEMBRANES,
 CENTRAL NERVOUS SYSTEM, DEPRESSION, HEADACHE, DIZZINESS, DROWSINESS, NAUSEA.

CHRONIC EFFECTS OF OVEREXPOSURE: NONE KNOWN

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: EXISTING DERMATITIS MAY BE AGGRAVATED.

PRIMARY ROUTE(S) OF EXPOSURE: EYE, SKIN, INHALATION, CAN BE ABSORBED THROUGH INTACT SKIN.

LISTED CARCINOGEN: NO

EXPOSURE LIMITS: NOT ESTABLISHED

FIRST AID: EYES-FLUSH WITH WATER 15 MINUTES, SEE PHYSICIAN. SKIN-WASH WITH SOAP AND WATER, REMOVE CONTAMINATED CLOTHING AND LAUNDRY BEFORE RE-USE. INHALATION-REMOVE TO FRESH AIR, GIVE ARTIFICIAL RESPIRATION IF NEEDED. INGESTION-DRINK LOTS OF WATER, GET IMMEDIATE MEDICAL ATTENTION.

SAFE HANDLING PROCEDURES

HYGIENIC PRACTICES: AVOID SKIN CONTACT, DO NOT WEAR CONTAMINATED CLOTHING, WASH WELL AFTER USE.

SPECIAL PROTECTIVE MEASURES DURING REPAIR/MAINTENANCE OF CONTAMINATED EQUIPMENT: ADDITIONAL PROTECTIVE CLOTHING AND/OR RESPIRATORY PROTECTION MAY BE NEEDED TO PREVENT OVER-EXPOSURE.

SPILL HANDLING/CLEAN-UP: CONTAIN SPILL, DON APPROPRIATE PROTECTIVE CLOTHING AND EQUIPMENT. ABSORB, PICK UP AND PLACE IN CONTAINERS FOR DISPOSAL.

CONTROL MEASURES

RECOMMENDED ENGINEERING CONTROLS: GOOD GENERAL VENTILATION SHOULD BE SUFFICIENT (APPROXIMATELY 10 AIR CHANGES PER HOUR)

RECOMMENDED WORK PRACTICES: KEEP CONTAINERS CLOSED WHEN NOT IN USE. NO SMOKING OR IGNITION SOURCES IN USE AREAS.

RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT:

RESPIRATORY PROTECTION: NOT EXPECTED TO BE NEEDED IN NORMAL USE.

GLOVES: IMPERVIOUS GLOVES RECOMMENDED IF SKIN CONTACT IS POSSIBLE.

EYE PROTECTION: CHEMICAL SAFETY GOGGLES

OTHER: EYE WASH, WASHING FACILITIES, IMPERVIOUS APRON OR OTHER CLOTHING AS NEEDED TO PREVENT SKIN CONTACT OR CLOTHING CONTAMINATION.

COMMENTS: FOR INDUSTRIAL/COMMERCIAL USE ONLY

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.)

NONE

VOC CONTENT 1.1 POUNDS/GALLON 137 GRAMS/LITER

DATE PREPARED/UPDATED: FEBRUARY 13, 2003
PREPARED BY: CLARK KING, EXEC.V.P., KIWO, INC.