

MATERIAL SAFETY DATA SHEET

 PRODUCT IDENTITY/TRADE NAME: KIWOCOL POLY PLUS Z

MANUFACTURER: 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 # |
|-------------------------|---------|------------|
| PHTHALOCYANINE COPPER | 0-1% | 147-14-4 |
| WATER | 35-55% | |
| POLYVINYL ALCOHOL | 1-15% | 9002-89-5 |
| POLYVINYL ACETATE | 2-22% | 9003-20-7 |
| POLYESTER RESIN MIXTURE | 1-15% | 63225-53-6 |
| ACRYLIC OLIGOMER | 1-21% | UNKNOWN |

BOILING POINT: APPROX. 100°C VAPOR PRESSURE: UNKNOWN

SOLUBILITY: SOLUBLE IN WATER

SPECIFIC GRAVITY: 1.06

APPEARANCE AND ODOR: BLUE VISCOUS LIQUID

PHYSICAL HAZARD DATA

COMPRESSED GAS: NO PYROPHORIC: NO

OXIDIZER: NO ORGANIC PEROXIDE: NO

FLAMMABLE/COMBUSTIBLE: NO FLASH POINT: NONE

EXTINGUISHING MEDIA: NON-COMBUSTIBLE, USE ANY EXTINGUISHING AGENT APPROPRIATE FOR SURROUNDING FIRE.

SPECIAL FIREFIGHTING PROCEDURES: NONE

EXPLOSIVE: NO

REACTIVITY/INCOMPATIBILITY: HIGH CONCENTRATIONS OF ACIDS OR SALTS WILL INITIATE NON-HAZARDOUS CROSS-LINKING.

SPECIAL STORAGE PRECAUTIONS: STORE IN A COOL, DRY DARK PLACE. MATERIAL IS LIGHT SENSITIVE.

HEALTH HAZARD DATA

ACUTE EFFECTS OF OVEREXPOSURE: DIRECT CONTACT OF LIQUID WITH EYE MAY CAUSE IRRITATION. PROLONGED CONTACT WITH THE SKIN MAY CAUSE IRRITATION. INHALATION OF SPRAY MAY CAUSE THROAT AND MUCOUS MEMBRANE IRRITATION. INGESTION MAY CAUSE NAUSEA.

CHRONIC EFFECTS OF OVEREXPOSURE: NONE KNOWN. SENSITIZATION TO ACRYLIC OLIGOMERS IS POSSIBLE IN SOME INDIVIDUALS.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: INDIVIDUALS SENSITIVE TO ACRYLIC OLIGOMERS.

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

LISTED CARCINOGEN: NO

| EXPOSURE LIMITS | OSHA PEL | ACGIH TLV |
|-----------------|----------|-----------|
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NONE KNOWN

FIRST AID: SKIN-RINSE WITH PLENTY OF WATER. EYE CONTACT- FLUSH WITH WATER, SEE PHYSICIAN IF IRRITATION PERSISTS. INGESTION-GIVE WATER, INDUCE VOMITING, GET IMMEDIATE MEDICAL ATTENTION.

SAFE HANDLING PROCEDURES

HYGIENIC PRACTICES: WASH AFTER HANDLING, AVOID PROLONGED SKIN CONTACT.

SPECIAL PROTECTIVE MEASURES FOR REPAIR/MAINTENANCE OF CONTAMINATED EQUIPMENT:
FOLLOW ALL NORMAL USE PRECAUTIONS.

SPILL HANDLING/CLEAN-UP: CONTAIN SPILL, COLLECT OR ABSORB, RINSE SMALL SPILLS WITH WATER. USE APPROPRIATE PROTECTIVE EQUIPMENT TO PREVENT UNNECESSARY CONTACT DURING CLEANUP.

CONTROL MEASURES

RECOMMENDED ENGINEERING CONTROLS: NONE REQUIRED FOR NORMAL USE. IF USE GENERATES MIST OR VAPORS, LOCAL EXHAUST VENTILATION SHOULD BE USED TO CONTROL EXPOSURE.

RECOMMENDED WORK PRACTICES: KEEP CONTAINERS CLOSED WHEN NOT IN USE, WASH AFTER USE.

RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION: NONE NORMALLY REQUIRED

GLOVES: IMPERVIOUS GLOVES MAY BE USED

EYE PROTECTION: SAFETY GLASSES RECOMMENDED, DO NOT WEAR CONTACT LENSES WHEN WORKING WITH THIS OR ANY OTHER CHEMICAL.

OTHER: EYE WASH

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 0 POUNDS/GALLON 0 GRAMS/LITER

DATE PREPARED/UPDATED: SEPTEMBER 24, 2004
PREPARED BY: CLARK KING, EXEC. V.P., KIWO, INC.