



MATERIAL SAFETY DATA SHEET
MSDS DATE: / /

FILE NO.: NAME OF PRODUCT

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **DRY ERASE (BLACK)**
SYNONYMS:
PRODUCT CODES: **UNV43651, UNV43681, UNV43650 UNV43680,UNV43670,UNV43671,OFF82435**
MANUFACTURER: **WENZHOU AIHAO PEN TRADE CO.,LTD; S-LAND CO., LTD (INK SUPPLIER)**
DIVISION:
ADDRESS: **NO.823 WENZHOU AVENUE,WENZHOU,ZHEJIANG PROVINCE,CHINA**

EMERGENCY PHONE:
CHEMTREC PHONE:
OTHER CALLS:
FAX PHONE:

CHEMICAL NAME:
CHEMICAL FAMILY:
CHEMICAL FORMULA:

PRODUCT USE: **WHITEBOARD MARK PEN INDUSTRY**
PREPARED BY:

SECTION 1 NOTES:

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT:

COMPONENT	CAS NO	PERCENTAGE.
Carbon Black	84602-65-5	4.5%
Ethyl alcohol	64-17-5	57%
Isopropyl alcohol	67-63-0	26%
Polyviny butyral	63148-65-2	3.1%
Dibutyl sebacate	109-40-3	1.8%
Diocetyl adipate	103-23-1	2%
Iscotyl palmitate	58-10-3	4.3%
Isocetyl stearate	57-11-4	1.5%

OSHA PEL-TWA: **NO DATA AVAILABLE**
OSHA PEL STEL : **NO DATA AVAILABLE**
OSHA PEL CEILING: **NO DATA AVAILABLE**

ACGIH TLV-TWA: **NO DATA AVAILABLE**
ACGIH TLV STEL: **NO DATA AVAILABLE**
ACGIH TLV CEILING: **NO DATA AVAILABLE**

SECTION 2 NOTES:

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:**MAY BE IRRITATING TO RESPIRATORY TRACT,SKIN AND EYES.**
THIS PRODUCT IS NOT RAPIDLY IGNITABLE

ROUTES OF ENTRY:

POTENTIAL HEALTH EFFECTS: **DATA NOT AVAILABLE**

EYES:

SKIN:



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INGESTION:

INHALATION:

ACUTE HEALTH HAZARDS: **DATA NOT AVAILABLE**

CHRONIC HEALTH HAZARDS: **DATA NOT AVAILABLE**

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: **DATA NOT AVAILABLE**

CARCINOGENICITY

OSHA:

ACGIH:

NTP:

IARC:

OTHER:

SECTION 3 NOTES:

SECTION 4: FIRST AID MEASURES

EYES: **FLUSH EYE WITH FLOWING WATER UNTIL NO EVIDENCE OF CHEMICAL REMAINS(AT LAST 15 MINUTES).IF IRRITATION DEVELOPS CONSULT AN OCULIST**

SKIN: **REMOVE CONTAMINATED CLOTHING AND SHOES IMMEDIATELY.WASH AFFECTED SKIN WITH SOAP AND WATER.GET MEDICAL ATTENTION IMMEDIATELY.**

INGESTION: **IF SWALLOWED,DILUTE WITH WATER AND INDUCE VOMITING.GET MEDICAL ATTENTION IMMEDIATELY.NEVER GIVE ANYTHING BY MOUTH TO UNCONSCIOUS PERSON.**

INHALATION: **IF INHALED,MOVE TO FRESH AIR.PERFORM ARTIFICIAL RESPIRATION IF NECESSARY.GET MEDICAL ATTENTION IMMEDIATELY**

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:

SECTION 4 NOTES:

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, UPPER: **NO DATA AVAILABLE**
(% BY VOLUME) LOWER:

FLASH POINT:

F:

C: **80**

METHOD USED:

AUTOIGNITION TEMPERATURE: **NO DATA AVAILABLE**

F:

C:

NFPA HAZARD CLASSIFICATION **NO DATA AVAILABLE**

HEALTH:

FLAMMABILITY:

REACTIVITY:

OTHER:

HMS HAZARD CLASSIFICATION **NO DATA AVAILABLE**

HEALTH:

FLAMMABILITY:

REACTIVITY:

PROTECTION:

EXTINGUISHING MEDIA: **SELF-CONTAINED BREATHING APPARATUS FOR FIGHTERS.
MOVE CONTAINER FROM FIRE IF YOU CAN DO IT WITHOUT RISK
DO NOT SCAITER SPILLED MATERIAL WITH HIGH PRESSURE WATER STEAMS**

SPECIAL FIRE FIGHTING PROCEDURES: **NO DATA AVAILABLE**

UNUSUAL FIRE AND EXPLOSION HAZARDS: **NO DATA AVAILABLE**

HAZARDOUS DECOMPOSITION PRODUCTS: **NO DATA AVAILABLE**

SECTION 5 NOTES:

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES:

PERSONAL PRECAUTION: **CLEAN UP WITH APPROPRIATE PERSONAL EQUIPMENT**

ENVIRONMENTAL PRECAUTIONS: **SCOOP OR SWEEP & TRANSFER INTO A CLOSED CONTAINER. KEEP WASTE OUT OF SEWERS.**

METHOD FOR CLEANING UP: **SCOOP OR SWEEP INTO A CONTAINER FOR REUSE OR DISPOSAL. KEEP UNNECESSARY PERSON AWAY**

SECTION 6 NOTES:

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: **STORED IN COOL DRY PLACE, KEEP CONTAINER TIGHTLY CLOSED. DO NOT INHALE THE SUBSTANCE AND AVOID CONTACT WITH THE SKIN OR EYES. WEAR PROTECTIVE CLOTHING WHEN HANDLING OPEN CONTAINER; AVOID ENVIRONMENTAL POLLUTION BY HANDLING THE PRODUCT CAREFULLY. WASH THOROUGHLY AFTER HANDLING. USE ONLY WITH ADEQUATE VENTILATION.**

OTHER PRECAUTIONS: **NONE**

SECTION 7 NOTES:

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: **NO DATA AVAILABLE**

VENTILATION : **NO DATA AVAILABLE**

RESPIRATORY PROTECTION: **LOCAL EXHAUST VENTILATION; AIR PURIFYING RESPIRATOR**

EYE PROTECTION: **SAFETY GOGGLES**

SKIN PROTECTION: **IMPERVIOUS CLOTHING**

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

WORK HYGIENIC PRACTICES: **NO DATA AVAILABLE**

EXPOSURE GUIDELINES: **NO DATA AVAILABLE**

SECTION 8 NOTES:

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: **UNIFORM LIQUID**

ODOR: **ODOUR LIKE ALCOHOL**

PHYSICAL STATE: **LIQUID**

pH AS SUPPLIED: **4.5±1.5**

pH (Other):

BOILING POINT:

F:

C: **78**

MELTING POINT: **NO DATA AVAILABLE**

F:

C:
FREEZING POINT: **NO DATA AVAILABLE**
F:
C:
VAPOR PRESSURE (mmHg): **3.452mmHG**
@
F:
C: **100 °**
VAPOR DENSITY (AIR = 1):
@ **1.59**
F:
C:
SPECIFIC GRAVITY (H2O = 1): **NO DATA AVAILABLE**
@
F:
C:
EVAPORATION RATE: **NO DATA AVAILABLE**
BASIS (=1): **NO DATA AVAILABLE**

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (con't)

SOLUBILITY IN WATER: **SOLUBLE IN WATER**
PERCENT SOLIDS BY WEIGHT: **NO DATA AVAILABLE**
PERCENT VOLATILE: **NO DATA AVAILABLE**
BY WT/ BY VOL /
F:
C:
VOLATILE ORGANIC COMPOUNDS (VOC): **NO DATA AVAILABLE**
WITH WATER: LBS/GAL
WITHOUT WATER: LBS/GAL
MOLECULAR WEIGHT: **NO DATA AVAILABLE**
VISCOSITY:
@
F:
C:

SECTION 9 NOTES:

SECTION 10: STABILITY AND REACTIVITY

STABLE

UNSTABLE

STABILITY: **STABLE UNDER NORMAL CONDITION OF STORAGE AND USE**
CONDITIONS TO AVOID (STABILITY): **NO DATA AVAILABLE**
INCOMPATIBILITY (MATERIAL TO AVOID): **NO DATA AVAILABLE**
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: **NO DATA AVAILABLE**
HAZARDOUS POLYMERIZATION: **NO DATA AVAILABLE**
CONDITIONS TO AVOID (POLYMERIZATION): **NO DATA AVAILABLE**

SECTION 10 NOTES:

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:
TOLERANCE LIMIT: **400ppm, 980mg/m3**

ACTUAL ORAL TOXICITY LD50(RAT): **NO DATA AVAILABLE**

SKIN IRRITATION/RABBIT/DRAIZE TEST: **NO DATA AVAILABLE**

IRRITATION OF MUCOUS/RABBIT EYES/DRAIZE TEST: **NO DATA AVAILABLE**

SECTION 11 NOTES:

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: **NO DATA AVAILABLE**

BEHAVIOR IN ENVIRONMENTAL COMPARTMENTS: **NO DATA AVAILABLE**

ECOTOXIC REACTION: **NO DATA AVAILABLE**

BACTERIA TOXICITY: **NO DATA AVAILABLE**

FISH TOXICITY: **NO DATA AVAILABLE**

SECTION 12 NOTES:

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: **IN COMPLIANCE WITH LOCAL, NATIONAL REGULATIONS**

RCRA HAZARD CLASS:

SECTION 13: DISPOSAL CONSIDERATIONS (con't)

SECTION 13 NOTES:

SECTION 14: TRANSPORT INFORMATION

NO DATA AVAILABLE

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME:

HAZARD CLASS:

ID NUMBER:

PACKING GROUP:

LABEL STATEMENT:

WATER TRANSPORTATION

PROPER SHIPPING NAME:

HAZARD CLASS:

ID NUMBER:

PACKING GROUP:

LABEL STATEMENTS:

AIR TRANSPORTATION

PROPER SHIPPING NAME:

HAZARD CLASS:

ID NUMBER:

PACKING GROUP:

LABEL STATEMENTS:

OTHER AGENCIES:

SECTION 14 NOTES:

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS **NO DATA AVAILABLE**

TSCA (TOXIC SUBSTANCE CONTROL ACT):

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

311/312 HAZARD CATEGORIES:

313 REPORTABLE INGREDIENTS:

STATE REGULATIONS:

INTERNATIONAL REGULATIONS:

SECTION 15 NOTES:

SECTION 16: OTHER INFORMATION

OTHER INFORMATION:

PREPARATION INFORMATION:

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