



MATERIAL SAFETY DATA SHEET  
MSDS DATE: / /

FILE NO.:                      NAME OF PRODUCT

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**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

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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:

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**SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS**

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**INGREDIENT:**

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

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:

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**SECTION 3: HAZARDS IDENTIFICATION**

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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:

INGESTION:

INHALATION:

ACUTE HEALTH HAZARDS: **DATA NOT AVAILABLE**

CHRONIC HEALTH HAZARDS: **DATA NOT AVAILABLE**

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

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CARCINOGENICITY

OSHA:

ACGIH:

NTP:

IARC:

OTHER:

SECTION 3 NOTES:

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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:

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SECTION 5: FIRE-FIGHTING MEASURES

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

FLASH POINT:

F:

C: **8** □

METHOD USED:

AUTOIGNITION TEMPERATURE: **NO DATA AVAILABLE**

F:

C:

NFPA HAZARD CLASSIFICATION **NO DATA AVAILABLE**

HEALTH:

FLAMMABILITY:

REACTIVITY:

OTHER:

HMIS 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:

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

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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:

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**SECTION 7: HANDLING AND STORAGE**

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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:

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

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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:

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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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**

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

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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:

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**SECTION 10: STABILITY AND REACTIVITY**

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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:

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**SECTION 11: TOXICOLOGICAL INFORMATION**

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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:

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**SECTION 12: ECOLOGICAL INFORMATION**

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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:

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**SECTION 13: DISPOSAL CONSIDERATIONS**

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

RCRA HAZARD CLASS:

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**SECTION 13: DISPOSAL CONSIDERATIONS (con't)**

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SECTION 13 NOTES:

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**SECTION 14: TRANSPORT INFORMATION**

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**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:

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**SECTION 15: REGULATORY INFORMATION**

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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:**

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**SECTION 16: OTHER INFORMATION**

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**OTHER INFORMATION:**

**PREPARATION INFORMATION:**

**DISCLAIMER:**