



# MATERIAL SAFETY DATA SHEET

NAME OF PRODUCT

FILE NO.:

MSDS DATE: Nov 25,2011

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: CHISEL DRYERASE MARKER,RE; DRY ERASE MARKER,RED; CHISEL DRYERASE MARKER 4ST,AST,RED;  
DRY ERASE MARKER SET,RED; MARKER,DRY ERASE,4ST,AST,RED; DRY ERASE MARKER,RED

SYNONYMS:

PRODUCT CODES: UNV43652, UNV43682 , UNV43650-RD; UNV43680-RD, UNV43670-RD; OFF82435-RD

MANUFACTURER: WENZHOU AIHAO PEN TRADE CO., LTD

DIVISION: MARKER WORKSHOP

ADDRESS: ZHONGXING AVENUE LONGWAN WENZHOU, ZHEJIANG PROVINCE, 325011, P.R.CHINA

EMERGENCY PHONE: 86-21-68622115

CHEMTREC PHONE:

OTHER CALLS:

FAX PHONE: 86-21-68622126

CHEMICAL NAME: Mixed

CHEMICAL FAMILY: Mixed

CHEMICAL FORMULA: Mixed

PRODUCT USE: WHITEBOARD MARK PEN INDUSTRY

PREPARED BY:

SECTION 1 NOTES: None

## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

### INGREDIENT:

<u>CAS NO.</u>	<u>% WT</u>	<u>% VOL</u>	<u>SARA 313 REPORTABLE</u>
(Ethyl alcohol)64-17-5	50-100		It is not regulation object.
(1-Methoxy-2-propanol)107-98-2	10-25		It is not regulation object.
Non hazardous substance	0-40		It is not regulation object.
	<u>ppm</u>	<u>mg/m3</u>	
OSHA PEL-TWA:	1000	1900	
OSHA PEL STEL :	-	-	
OSHA PEL CEILING:	-	-	
ACGIH TLV-TWA:	1000	1880	
ACGIH TLV STEL:	-	-	
ACGIH TLV CEILING:	-	-	

SECTION 2 NOTES:

## SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: None

ROUTES OF ENTRY: None

POTENTIAL HEALTH EFFECTS

EYES: None

SKIN: None

INGESTION: None

INHALATION: None

ACUTE HEALTH HAZARDS: None  
CHRONIC HEALTH HAZARDS: None  
EYES: None  
SKIN: None  
INGESTION: None  
INHALATION: None

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None  
None

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**CARCINOGENICITY**

OSHA: None

ACGIH: None

NTP: None

IARC: None

OTHER: -

SECTION 3 NOTES: None

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**SECTION 4: FIRST AID MEASURES**

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EYES: Rinse opened eye for several minutes under running water. Then consult a doctor.

SKIN: Generally the product does not irritate the skin.

INGESTION: If symptoms persist consult doctor.

INHALATION: Supply fresh air; consult doctor in case of complaints.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:

SECTION 4 NOTES: None

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**SECTION 5: FIRE-FIGHTING MEASURES**

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FLAMMABLE LIMITS IN AIR, UPPER: 15  
(% BY VOLUME) LOWER: 1.7

FLASH POINT:

F: 55

C: 13

METHOD USED:

AUTOIGNITION TEMPERATURE:

F: 549

C: 287

NFPA HAZARD CLASSIFICATION

HEALTH: 0

FLAMMABILITY: 3

REACTIVITY: 0

OTHER: -

EXTINGUISHING MEDIA: CO2, sand, extinguishing powder. Do not use water.

SPECIAL FIRE FIGHTING PROCEDURES: None

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

HAZARDOUS DECOMPOSITION PRODUCTS: None

SECTION 5 NOTES: None

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

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ACCIDENTAL RELEASE MEASURES:

Wear protective equipment. Keep unprotected persons away.

Wear protective clothing.  
Prevent seepage into sewage system, workpits and cellars.  
Do not allow to enter sewers/surface or ground water.

SECTION 6 NOTES: None

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#### SECTION 7: HANDLING AND STORAGE

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##### HANDLING AND STORAGE:

Ensure good ventilation/exhaustion at the workplace.  
Keep ignition sources away-Do not smoke.  
Protect against dlectrostatic charges.  
Store in a cool location.  
Keep receptacle tightly seales.  
Store in cool, dry conditions in well sealed receptacles.

OTHER PRECAUTIONS: None

SECTION 7 NOTES: None

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

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ENGINEERING CONTROLS: None

VENTILATION : None

RESPIRATORY PROTECTION: None

EYE PROTECTION: Tightly sealed goggles.

SKIN PROTECTION: Avoid contact with skin. Protective gloves.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: None

WORK HYGIENIC PRACTICES: None

EXPOSURE GUIDELINES: None

SECTION 8 NOTES: None

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#### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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APPEARANCE: Fluid

ODOR: alcohol-like

PHYSICAL STATE: Liquid

pH AS SUPPLIED: None

pH (Other): None

BOILING POINT: None

F:

C:

MELTING POINT: None

F:

C:

FREEZING POINT: None

F:

C:

VAPOR PRESSURE (mmHg): 44

@  
F: 68  
C: 20  
VAPOR DENSITY (AIR = 1): 0.85 g/cm3  
@  
F: 68  
C: 20  
SPECIFIC GRAVITY (H2O = 1): None  
@  
F:  
C:  
EVAPORATION RATE: None  
BASIS (=1): None  
FLAMMABILITY: None

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

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SOLUBILITY IN WATER: Soluble in organic solvents

PERCENT SOLIDS BY WEIGHT: None

PERCENT VOLATILE: None  
BY WT/ BY VOL @

F:  
C:  
VOLATILE ORGANIC COMPOUNDS (VOC): None

WITH WATER:	LBS/GAL
WITHOUT WATER:	LBS/GAL

MOLECULAR WEIGHT:  
VISCOSITY: 10 mPas  
@

F:68  
C: 20

SECTION 9 NOTES: None

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**SECTION 10: STABILITY AND REACTIVITY**

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STABLE

UNSTABLE

STABILITY: None

CONDITIONS TO AVOID (STABILITY): None

INCOMPATIBILITY (MATERIAL TO AVOID): None

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: None

HAZARDOUS POLYMERIZATION: None

CONDITIONS TO AVOID (POLYMERIZATION): None

SECTION 10 NOTES: None

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**SECTION 11: TOXICOLOGICAL INFORMATION**

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TOXICOLOGICAL INFORMATION: None  
SECTION 11 NOTES: None

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**SECTION 12: ECOLOGICAL INFORMATION**

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**ECOLOGICAL INFORMATION:** slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**SECTION 12 NOTES:** None

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**SECTION 13: DISPOSAL CONSIDERATIONS**

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**WASTE DISPOSAL METHOD:** Must not be disposed together with household garbage. Do not allow product to reach sewage system.

**RCRA HAZARD CLASS:** None

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

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**SECTION 13 NOTES:** None

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**SECTION 14: TRANSPORT INFORMATION**

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**U.S. DEPARTMENT OF TRANSPORTATION**

**PROPER SHIPPING NAME:** PAINT  
**HAZARD CLASS:** 3 Flammable liquids  
**ID NUMBER:** None  
**PACKING GROUP:** II  
**LABEL STATEMENT:** 3

**WATER TRANSPORTATION**

**PROPER SHIPPING NAME:** PAINT  
**HAZARD CLASS:** 3 Flammable liquids  
**ID NUMBER:** None  
**PACKING GROUP:** II  
**LABEL STATEMENTS:** 3

**AIR TRANSPORTATION**

**PROPER SHIPPING NAME:** None  
**HAZARD CLASS:** None  
**ID NUMBER:** None  
**PACKING GROUP:** None  
**LABEL STATEMENTS:** None

**OTHER AGENCIES: GGV IMDG CODE:** None

**ICAO/IATA-DGR:** Not restricted  
**UN No.:** Not restricted  
**RID/ADR:** None

**SECTION 14 NOTES:** None

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**SECTION 15: REGULATORY INFORMATION**

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**U.S. FEDERAL REGULATIONS**

**TSCA (TOXIC SUBSTANCE CONTROL ACT):** All ingredients are listed.

**CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):** None

**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):** None

**311/312 HAZARD CATEGORIES:** None

**Acute:** None  
**Chronicity:** None  
**Fire:** None  
**Reactivity:** None

**Sudden exhaust: None**

**313 REPORTABLE INGREDIENTS: None**

**STATE REGULATIONS: None**

**INTERNATIONAL REGULATIONS: None**

**SECTION 15 NOTES: None**

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**SECTION 16: OTHER INFORMATION**

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**OTHER INFORMATION:** This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**PREPARATION INFORMATION: None**

**DISCLAIMER: None**