

UNV 43671



# MATERIAL SAFETY DATA SHEET

NAME OF PRODUCT

FILE NO.:

MSDS DATE: 08/17

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: CHISEL DRYERASE MARKER,BK; DRY ERASE MARKER,BLACK; MARKER,DRY ERASE,BLT PT,BK; CHISEL DRYERASE MARKER 4ST,AST,BLACK; DRY ERASE MARKER SET,BLACK; MARKER,DRY ERASE,4ST,AST,BLACK; MARKER,DRY ERASE,4ST,AST;DRY ERASE MARKER SET,ASST-BLACK.

SYNONYMS:  
PRODUCT CODES: UNV43651, UNV43681,UNV43671,UNV43650-BK,UNV43680-BK,UNV43670-BK,OFF82435-BK

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: IDENTIFICATION OF THE PRODUCT (Specific Chemical Identity. Common Name)  
C.I. Generic Name-7 7 2 6 6  
C.I. Number-Pigment Black 7  
Humectant-Ethanol, Isoprophylalcohol, Additive

## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

### INGREDIENT:

CAS NO.	% WT	% VOL	SARA 313 REPORTABLE
(Carbon Black)84602-65-5	3-5	1.8-2.9	It is not regulation object.
(Ethyl alcohol)64-17-5	53-58	67.1-73.5	It is not regulation object.
(Isopropyl alcohol)67-63-0	25-30	31.8-38.2	It is not regulation object.
(Polyviny butyral)63148-65-2	2-4	1.8-3.7	It is not regulation object.
(Deputy separate) 109-40-3	1-4	1.1-4.2	It is not regulation object.
(Dactyl adipate)103-23-1	1.5-2.2	1.6-2.4	It is not regulation object.
(Isoctyl palmitate)29806-73-3	4.1-4.7	4.4-5.1	It is not regulation object.
(ISOCTYL STEARATE)57-11-4	1.3-1.6	1.4-1.7	It is not regulation object.
OSHA PEL-TWA:	ppm 1000	mg/m3 1900	
OSHA PEL STEL :	-	-	
OSHA PEL CEILING:	-	-	
ACGIH TLV-TWA:	1000	1900	
ACGIH TLV STEL:	-	-	
ACGIH TLV CEILING:	-	-	

SECTION 2 NOTES:

## SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: May be irritating to respiratory tract, skin and eyes. This product is not rapidly ignitable. Use only with adequate ventilation. Wash thoroughly after handing.

ROUTES OF ENTRY:

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**POTENTIAL HEALTH EFFECTS**

**EYES:** stimulus

**SKIN:** stimulus

**INGESTION:** hypothermia or pyrexia, nausea, difficulty in breathing, blood pressure change, sleeping, blindness, convulsion  
**INHALATION:** stimulus, difficulty in breathing, headache, sleeping, vertigo

**ACUTE HEALTH HAZARDS:**

**CHRONIC HEALTH HAZARDS:**

**EYES:** eyes injure

**SKIN:** stimulus

**INGESTION:** extreme pain, tremor, blindness, liver injure, heart injure, brain injure, diarrhea, weight losses

**INHALATION:** stimulus, nausea, a headache, sleeping, fatigue, tremor

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:**

Stimulus of the respiratory organs, stimulus of skin, stimulus of eyes, liver injure, central nervous system suppression

**CARCINOGENICITY**

**OSHA:** None

**ACGIH:** None

**NTP:** None

**IARC:** None

**OTHER:** -

**SECTION 3 NOTES:**

**SECTION 4: FIRST AID MEASURES**

**EYES:** Flush eye with flowing water until no evidence of chemical remains (at least 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:** 19  
**(% BY VOLUME) LOWER:** 3.28

**FLASH POINT:**

**F:** 46.4

**C:** 8

**METHOD USED:**

**AUTOIGNITION TEMPERATURE:**

**F:** 685

**C:** 363

**NFPA HAZARD CLASSIFICATION**

**HEALTH:** 0

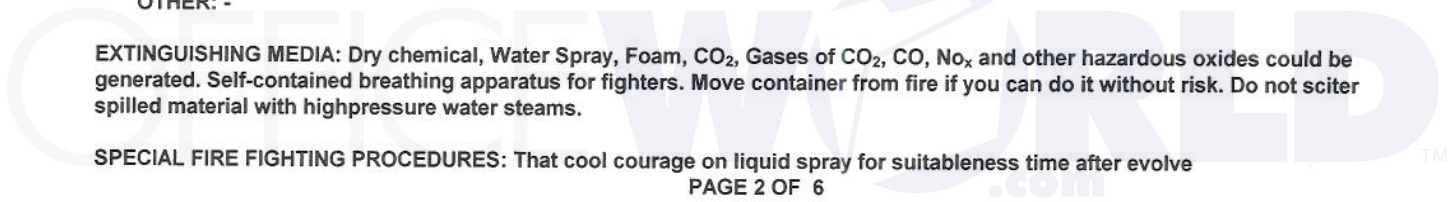
**FLAMMABILITY:** 3

**REACTIVITY:** 0

**OTHER:** -

**EXTINGUISHING MEDIA:** Dry chemical, Water Spray, Foam, CO<sub>2</sub>, Gases of CO<sub>2</sub>, CO, No<sub>x</sub> and other hazardous oxides could be generated. Self-contained breathing apparatus for fighters. Move container from fire if you can do it without risk. Do not sciter spilled material with highpressure water steams.

**SPECIAL FIRE FIGHTING PROCEDURES:** That cool courage on liquid spray for suitableness time after evolve



UNUSUAL FIRE AND EXPLOSION HAZARDS: Heat products of the dissolution; Carbon oxides

HAZARDOUS DECOMPOSITION PRODUCTS: None

SECTION 5 NOTES: Fire hazard when exposed to heat or flame. Vapour-air mixtures may ignite or explode.

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#### SECTION 6: ACCIDENTAL RELEASE MEASURES

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ACCIDENTAL RELEASE MEASURES: Clean up with appropriate personal equipment. Scoop or sweep & transfer into a closed container. Keep waste out of sewers. 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: -

SECTION 7 NOTES:

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

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ENGINEERING CONTROLS: Open and shut type production facilities to avoid exposing hazardous gases.

VENTILATION : Local exhaust ventilation. Movable dust collector. Air purifying respirator.

RESPIRATORY PROTECTION: Gas mask.

EYE PROTECTION: Safety goggles

SKIN PROTECTION: Impervious clothing

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Rubber gloves for hand protection.

WORK HYGIENIC PRACTICES: Keep the skin clean after work, in order not to causing irritation.

EXPOSURE GUIDELINES: Avoid direct skin contact, intentional inhalation.  
Wearing a mask at work area.

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: 172.4

C: 78

MELTING POINT: no available

F: no available  
C:  
FREEZING POINT:  
F: -173.4  
C: -114.1  
VAPOR PRESSURE (mmHg): 3.452  
@  
F: 212  
C: 100  
VAPOR DENSITY (AIR = 1): 1.59  
@  
F: 212  
C: 100  
SPECIFIC GRAVITY (H2O = 1): 0.846  
@  
F: 77  
C: 25  
EVAPORATION RATE: 1.4  
BASIS (=1):  
FLAMMABILITY: 12.2

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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:

PERCENT VOLATILE:  
BY WT/ BY VOL @  
F:  
C:

VOLATILE ORGANIC COMPOUNDS (VOC):

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

MOLECULAR WEIGHT:  
VISCOSITY: 6.5-9.5 cps  
@  
F: 77  
C: 25

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): That avoid heat, flame, spark and other shot-firer.

INCOMPATIBILITY (MATERIAL TO AVOID): Acid, Metal, Oxidizing agent, inflammables, halogen, a base peroxides

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Carbon-oxide

HAZARDOUS POLYMERIZATION: None

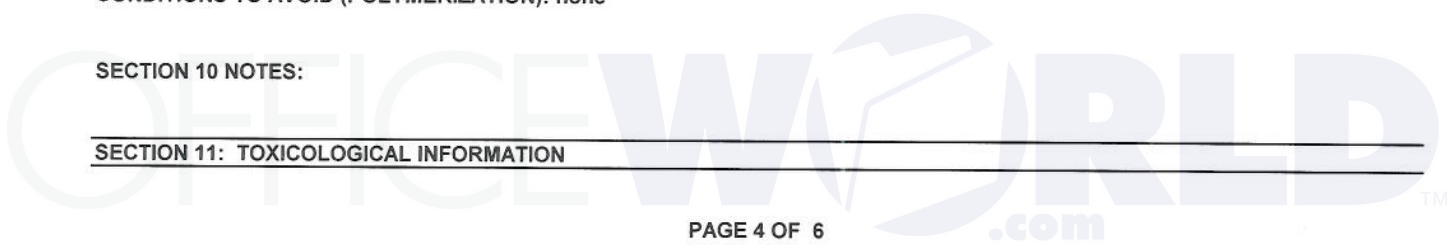
CONDITIONS TO AVOID (POLYMERIZATION): none

SECTION 10 NOTES:

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**SECTION 11: TOXICOLOGICAL INFORMATION**

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TOXICOLOGICAL INFORMATION: Tolerance limit: 400ppm, 980mg/m<sup>3</sup>

SECTION 11 NOTES:

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SECTION 12: ECOLOGICAL INFORMATION

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ECOLOGICAL INFORMATION: no data available

SECTION 12 NOTES:

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SECTION 13: DISPOSAL CONSIDERATIONS

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WASTE DISPOSAL METHOD: Ensure that disposal is 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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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: GGV IMDG CODE: None  
ICAO/IATA-DGR: Not restricted  
UN No.: Not restricted  
RID/ADR: None

SECTION 14 NOTES:

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SECTION 15: REGULATORY INFORMATION

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U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): A materials to be registered.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): It is not regulation object.

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT): It is not regulation object.

**311/312 HAZARD CATEGORIES:**

Acute: Yes  
Chronically: Yes  
Fire: Yes  
Reactivity: None  
Sudden exhaust: None

**313 REPORTABLE INGREDIENTS:** It is not regulation object.

**STATE REGULATIONS:** It is not regulation object.

**INTERNATIONAL REGULATIONS:** It is not regulation object.

**SECTION 15 NOTES:**

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**SECTION 16: OTHER INFORMATION**

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**PREPARATION INFORMATION:**

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