



UNV 43671

**MATERIAL SAFETY DATA SHEET**

NAME OF PRODUCT

FILE NO.:

MSDS DATE: 08/1/7

**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:**

<u>CAS NO.</u>	<u>% WT</u>	<u>% VOL</u>	<u>SARA 313 REPORTABLE</u>
(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.
(Polyvinyl 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.
	<u>ppm</u>	<u>mg/m3</u>	
OSHA PEL-TWA:	1000	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 handling.

**ROUTES OF ENTRY:**

#### 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

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#### CARCINOGENICITY

OSHA: None

ACGIH: None

NTP: None

IARC: None

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 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:

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#### 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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**OTHER INFORMATION:** THIS INFORMATION IS FURNISHED WITHOUT WARRANTY, EXPRESSED OR IMPLIED, EXCEPT THAT IT IS ACCURATE TO THE BEST KNOWLEDGE AIHAO. THE DATA ON THIS SHEET RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED HEREIN. AIHAO ASSUMES NO LEGAL RESPONSIBILITY FOR USE OR RELIANCE UPON THESE DATA.

**PREPARATION INFORMATION:**

**DISCLAIMER:**