



# MATERIAL SAFETY DATA SHEET

NAME OF PRODUCT

FILE NO.:  
MSDS DATE: 18 Nov., 11

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: MARKER,PERM,CHSL,RG,BLUE

**SYNONYMS:**

PRODUCT CODES: UNV07053, OFF82442

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: Compound

CHEMICAL FAMILY: Compound

CHEMICAL FORMULA: Compound

PRODUCT USE: PERMANENT MARKER 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>
(1-Methoxy-2-propanol)107-98-2	50-100		It is not regulation object.
(1-propanol)71-23-8	25-50		It is not regulation object.
(Benzenesulfonic acid, 4-C10-13-sec-alkylderivs) 85536-14-7	2.5-10		It is not regulation object.
(C.I. Solve t Blue 51) 68411-04-1	2.5-10		It is not regulation object.
(C.I. Solvent blue 4) 6786-83-0	≤ 2.5		It is not regulation object.
Non hazardous substances	0-17.5		It is not regulation object.

	<u>ppm</u>	<u>mg/m3</u>
OSHA PEL-TWA:	200	500
OSHA PEL STEL :	-	-
OSHA PEL CEILING:	-	-
ACGIH TLV-TWA:	100	246
ACGIH TLV STEL:	-	-
ACGIH TLV CEILING:	-	-

SECTION 2 NOTES: None

## SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: None

ROUTES OF ENTRY: None

**POTENTIAL HEALTH EFFECTS**

EYES: Risk of serious damage to eyes.

SKIN: Irritating to skin.

INGESTION: None  
INHALATION: None

**ACUTE HEALTH HAZARDS:**

EYES: None  
SKIN: None  
INGESTION: None  
INHALATION: None

**CHRONIC HEALTH HAZARDS: None**

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None**

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**CARCINOGENICITY**

OSHA: None                      ACGIH:    None                      NTP:    None                      IARC: None  
OTHER: None

**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:** Immediately wash with water and soap and rinse thoroughly.  
Immediately rinse with water.

**INGESTION:** If symptoms persist consult doctor.

**INHALATION:** In case of unconsciousness place patient stably in side position for transportation.

**NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: None**

**SECTION 4 NOTES: None**

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**SECTION 5: FIRE-FIGHTING MEASURES**

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**FLAMMABLE LIMITS IN AIR, UPPER: 13.5**  
**(% BY VOLUME)                      LOWER: 1.7**

**FLASH POINT:**

F: 73.4  
C: 23

**METHOD USED:**

**AUTOIGNITION TEMPERATURE:**

F: 549  
C: 587

**NFPA HAZARD CLASSIFICATION**

HEALTH: 2                      FLAMMABILITY: 3                      REACTIVITY: 0  
OTHER: -

**EXTINGUISHING MEDIA:** CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**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.  
Inform respective authorities in case of seepage into water course or sewage system.  
Dilute with plenty of water.  
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.  
Prevent formation of aerosols.  
Keep ignition sources away-Do not smoke.  
Protect against dlectrostatic charges.  
Keep container tightly sealed.

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: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

EYE PROTECTION: Avoid contact with eyes. Tightly sealed goggles.

SKIN PROTECTION: Avoid contact with skin. Protective gloves.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Immediately remove all soiled and contaminated clothing.

WORK HYGIENIC PRACTICES: Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work.

EXPOSURE GUIDELINES: None

SECTION 8 NOTES: None

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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APPEARANCE: Fluid

ODOR: Product specific

PHYSICAL STATE: None

pH AS SUPPLIED: None

pH (Other): None

BOILING POINT:

F: 205

C: 96  
MELTING POINT: None  
F:  
C:  
FREEZING POINT: None  
F:  
C:  
VAPOR PRESSURE (mmHg): 14  
@  
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

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

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SOLUBILITY IN WATER: Fully miscible.  
PERCENT SOLIDS BY WEIGHT: 11  
PERCENT VOLATILE: None  
BY WT/ BY VOL @  
F:  
C:  
VOLATILE ORGANIC COMPOUNDS (VOC): None  
WITH WATER: LBS/GAL  
WITHOUT WATER: LBS/GAL  
MOLECULAR WEIGHT: None  
VISCOSITY: 5 mpas  
@  
F: 68  
C: 20

SECTION 9 NOTES:

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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:** Irritant to skin and mucous membranes. Strong irritant with the danger of severe eye injury. No sensitizing effects known.

**SECTION 11 NOTES:** None

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**SECTION 12: ECOLOGICAL INFORMATION**

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**ECOLOGICAL INFORMATION:** Extremely hazardous for water. Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms.

**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  
**ID NUMBER:** UN1263  
**PACKING GROUP:** III  
**LABEL STATEMENT:** 3

**WATER TRANSPORTATION**

**PROPER SHIPPING NAME:** PAINT (C.I.Solvent Orange 3)  
**HAZARD CLASS:** 3  
**ID NUMBER:** 1263  
**PACKING GROUP:** III  
**LABEL STATEMENTS:** 3

**AIR TRANSPORTATION**

**PROPER SHIPPING NAME:** PAINT  
**HAZARD CLASS:** 3  
**ID NUMBER:** 1263  
**PACKING GROUP:** III  
**LABEL STATEMENTS:** 3

**OTHER AGENCIES:** 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**