



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,LG,BK

SYNONYMS:

PRODUCT CODES: UNV07051, UNV07071, OFF82440

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	25-50		It is not regulation object.
(1-propanol)71-23-8	25-50		It is not regulation object.
(Benzenesulfonic acid, 4-C10-13-sec-alkyl)derivs) 85536-14-7	2.5-10		It is not regulation object.
(C.I. Solve t Violet 8) 52080-58-7	2.5-10		It is not regulation object.
(C.I.Solvent orange 3) 495-54-5	2.5-10		It is not regulation object.
Non hazardous substances	0-42.5		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

CARCINOGENICITY

OSHA: None

ACGIH: None

NTP: None

IARC: None

OTHER: None

SECTION 3 NOTES: None

SECTION 4: FIRST AID MEASURES

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

SECTION 5: FIRE-FIGHTING MEASURES

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: 287

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

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

SECTION 7: HANDLING AND STORAGE

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

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Fluid

ODOR: Product specific

PHYSICAL STATE: None

pH AS SUPPLIED: None

pH (Other):

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

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

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: None

SECTION 10: STABILITY AND REACTIVITY

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

SECTION 11: TOXICOLOGICAL INFORMATION

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

SECTION 12: ECOLOGICAL INFORMATION

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

SECTION 13: DISPOSAL CONSIDERATIONS

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

RCRA HAZARD CLASS: None

SECTION 13: DISPOSAL CONSIDERATIONS (con't)

SECTION 13 NOTES: None

SECTION 14: TRANSPORT INFORMATION

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

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): All ingredients are listed.
PAGE 5 OF 6

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

SECTION 16: OTHER INFORMATION

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