



MATERIAL SAFETY DATA SHEET

NAME OF PRODUCT

FILE NO.:

MSDS DATE: 09/6/4

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Desk Highlighter,Set of 5,ASST; Desk Highlighter,Yellow; Desk Highlighter,Pink; Highlighter-Liquid yellow ;Highlighter-Liquid highlighter,yellow;HIGHLIGHTER,POCKET,5 ST; HIGHLIGHTER,POCKET,FYW; HIGHLIGHTER,POCKET,FGN; HIGHLIGHTER,POCKET,FOE; HIGHLIGHTER,POCKET,FBE; HIGHLIGHTER,POCKET,FPK; HIGHLIGHTER,DESK,5 ST; HIGHLIGHTER,DESK,FYW;HIGHLIGHTER,DESK,FGN; HIGHLIGHTER,DESK,FOE; HIGHLIGHTER,DESK,FBE; HIGHLIGHTER,DESK,FPK; Highlighter, Rubberized Comfort Grip 5 color set; Highlighter, Rubberized Comfort Grip,yellow

SYNONYMS:

PRODUCT CODES:

OFF82420,OFF82421,OFF82422,UNV08840,UNV08841,UNV08850,UNV08851,UNV08852,UNV08853,UNV08854,UNV08855,UNV08860,UNV08861,UNV08862,UNV08863,UNV08864,UNV08865,UNV18860,UNV18861

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: Water Base Dispersion of Basic Dyes and Polymer

CHEMICAL FAMILY:

CHEMICAL FORMULA:

PRODUCT USE: Coloring

PREPARED BY:

SECTION 1 NOTES:

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT: Water Base Dispersion of Basic Dyes and Polymer

<u>CAS NO.</u>	<u>% WT</u>	<u>% VOL</u>	<u>SARA 313 REPORTABLE</u>
Acrylonitrile(impurity)107-13-1	<0.05%	<0.06%	
	<u>ppm</u>	<u>mg/m3</u>	
OSHA PEL-TWA:	2	4.3	
OSHA PEL STEL :			
OSHA PEL CEILING:	10(15 min)		
ACGIH TLV-TWA:	2	4.3	
ACGIH TLV STEL:			
ACGIH TLV CEILING:	10(15 min)		

SECTION 2 NOTES:

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Acrylonitrile impurity, a suspected carcinogen, is present at <500 ppm. It may cause irritation or skin rash on prolonged contact and can irritate the mucous membrane. Ingestion may cause gastric disturbance.

ROUTES OF ENTRY: Inhalation? Yes Dermal? Yes Ingestion? Yes

POTENTIAL HEALTH EFFECTS

EYES: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Begin with medical treatment.

SKIN: Wash effected area immediately with plenty of water and soap. Remove contaminated clothing and shoes immediately. And clean thoroughly before reuse.

INGESTION: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Begin with medical treatment.

INHALATION: Remove the casualty into fresh air and keep at rest.

ACUTE HEALTH HAZARDS: Unknown

CHRONIC HEALTH HAZARDS: Unknown

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Unknown

CARCINOGENICITY

OSHA: Yes

ACGIH:

NTP: Yes

IARC: Yes

OTHER:

SECTION 3 NOTES:

SECTION 4: FIRST AID MEASURES

EYES: Flush with plenty of water. If irritation develops, get medical attention.

SKIN: Wash affected areas with water and soap and rinse well. If irritation develops, get medical attention.

INGESTION: Induce vomiting and call a physician. If unconscious, get immediate medical care.

INHALATION: Remove to fresh air.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:

SECTION 4 NOTES:

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, UPPER: None
(% BY VOLUME) LOWER: None

FLASH POINT: None

F:

C:

METHOD USED:

AUTOIGNITION TEMPERATURE: Not applicable

F: Not

C: Not

NFPA HAZARD CLASSIFICATION

HEALTH: Not

FLAMMABILITY: Not

REACTIVITY: Not

OTHER: None

HMIS HAZARD CLASSIFICATION

HEALTH: Not

FLAMMABILITY: Not

REACTIVITY: Not

PROTECTION: None

EXTINGUISHING MEDIA: Non-flammable

SPECIAL FIRE FIGHTING PROCEDURES: None

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

HAZARDOUS DECOMPOSITION PRODUCTS: None

SECTION 5 NOTES:

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES:

Personal precautions: Refer to protective measures listed in sections 7 and 8. Avoid contact with skin, eyes and clothing. Use personal protective equipment.

Environmental precautions: Do not discharge into the drains/surface waters/groundwater.

Methods for cleaning up: Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr). Send in suitable containers for recovery or disposal. Clean contaminated surfaces thoroughly with water. Containers in which spilt substance has been collected must be adequately labeled.

SECTION 6 NOTES:

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Steps to be taken in case the material is released or spilled: Soak up the spill with absorbent material and collect in containers for disposal. Wear rubber gloves and safety glasses when cleaning the spill.

OTHER PRECAUTIONS: Avoid contact with skin and eyes.

SECTION 7 NOTES:

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Not particularly.

VENTILATION : Local Exhaust; Recommended

RESPIRATORY PROTECTION: Not required if used in a well ventilated area.

EYE PROTECTION: Safety glasses or goggles.

SKIN PROTECTION: Recommended to prevent skin contact.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Not necessary.

WORK HYGIENIC PRACTICES: See 29 CFR 1910.1045

EXPOSURE GUIDELINES: Do not throw it away on a waterway or on the ground.

SECTION 8 NOTES:

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Lemon Yellow fluorescent liquid

ODOR: slight

PHYSICAL STATE: Liquid

pH AS SUPPLIED: 5-7

pH (Other):

BOILING POINT:

F: 212

C:

MELTING POINT: no data available

F:

C:

FREEZING POINT: <0%

F:

C:

VAPOR PRESSURE (mmHg): 18

@

F: 68
C:
VAPOR DENSITY (AIR = 1): 0.63
@
F:
C:
SPECIFIC GRAVITY (H₂O = 1): 1.10-1.20
@
F:
C:
EVAPORATION RATE: Same as water
BASIS (=1):

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

SOLUBILITY IN WATER: Not soluble but dispersible

PERCENT SOLIDS BY WEIGHT: 37.5-40.5%

PERCENT VOLATILE: 59.5-62.5%
BY WT/ BY VOL @

F:
C:
VOLATILE ORGANIC COMPOUNDS (VOC): <0.2%

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

MOLECULAR WEIGHT: There are no measurement data

VISCOSITY: 5-15 mPa.s

@
F:
C:

SECTION 9 NOTES:

SECTION 10: STABILITY AND REACTIVITY

STABLE

UNSTABLE

STABILITY: Stable

CONDITIONS TO AVOID (STABILITY): None

INCOMPATIBILITY (MATERIAL TO AVOID): None

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: None

HAZARDOUS POLYMERIZATION: May Not Occur

CONDITIONS TO AVOID (POLYMERIZATION): None

SECTION 10 NOTES:

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

Experience in practice: Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product. Product contact may irritate skin, eyes and mucous membrane.

Other information: Product specific toxicological data are not known.

SECTION 11 NOTES:

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION:

General information: Do not allow spillage to soil, waterways or waste water canal. Product specific ecotoxicological data are not known.

SECTION 12 NOTES:

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Follow state and federal regulations for disposal. Incinerate, do not discharge to streams or waterways.

RCRA HAZARD CLASS: The toxic substance in particular does not include it.

SECTION 13: DISPOSAL CONSIDERATIONS (con't)

SECTION 13 NOTES:

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME: Not Applicable

HAZARD CLASS: Not Applicable

ID NUMBER:

PACKING GROUP: Not Applicable

LABEL STATEMENT: Not Applicable

WATER TRANSPORTATION

PROPER SHIPPING NAME: Not Applicable

HAZARD CLASS: Not Applicable

ID NUMBER:

PACKING GROUP: Not Applicable

LABEL STATEMENTS: Not Applicable

AIR TRANSPORTATION

PROPER SHIPPING NAME: Not Applicable

HAZARD CLASS: Not Applicable

ID NUMBER:

PACKING GROUP: Not Applicable

LABEL STATEMENTS: Not Applicable

OTHER AGENCIES: The product does not constitute a hazardous substance in national/international road, rail, sea and air transport.

SECTION 14 NOTES:

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT):

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

311/312 HAZARD CATEGORIES:

313 REPORTABLE INGREDIENTS: This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40CRT 372:

This information must be
Included in all MSDS that are copied and distributed for this material.

Hazard Ratings:

Health: 1

Flammability: 0

Reactivity: 0

STATE REGULATIONS: Treat in accordance with appropriate government regulations

INTERNATIONAL REGULATIONS:

SECTION 15 NOTES:

SECTION 16: OTHER INFORMATION

OTHER INFORMATION: The information and recommendations herein, are to the best of our knowledge true and accurate. No warranty, expressed or implied is made or intended.

PREPARATION INFORMATION:

DISCLAIMER: