



## Hilord Chemical Corporation

Tel: 631-234-7373

Fax: 631-234-4597

E-mail: Donald @ hilord.com

70 Engineers Road

Hauppauge, New York 11788-4076

USA

# MATERIAL SAFETY DATA SHEET

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### SECTION 1 - PRODUCT IDENTIFICATION & EMERGENCY INFORMATION

PRODUCT NAME: Hilord Solvent Ink  
(For Use in the Mimaki JV-3 Printers)

PRODUCT CODE: 249 (Black), 250 (Cyan), 251  
(Magenta), 252 (Yellow), 253 (Light Cyan), 254 (Light  
Magenta), 827 (White)

#### PRODUCT REORDER NUMBERS:

Black - JV3-SIJ-B ; JV3-SIJBS-B; Cyan - JV3-SIJ-C; JV3-SIJBS-C; Magenta - JV3-SIJ-M; JV3-SIJBS-M; Yellow -  
JV3-SIJ-Y; JV3-SIJBS-Y; Light Cyan - JV3-SIJ-IC; JV3-SIJBS-LC; Light Magenta - JV3-SIJ-LM; JV3-SIJBS-LM;  
JV3-SIJBS-W

#### EMERGENCY TELEPHONE NUMBER

CHEMTREC (24 HOUR)

U.S.A. 1-800-424-9300

INT'L 703-527-3887 (Call Collect)

#### INFORMATION TELEPHONE NUMBER

HILORD CHEMICAL CORPORATION

631-234-7373

### SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

<u>COMPONENT</u>	<u>PERCENT</u>	<u>C.A.S. NO.</u>
Proprietary Solvents*	> 70%	Trade Secret
Diacetone Alcohol*	5.0 to 15.0%	123-42-2
Dyes and/or Pigments	Not greater than 10.0%	Trade Secret
Vinyl Acrylic Copolymer	Not greater than 10.0%	Trade Secret

### SECTION 3 - HAZARDS IDENTIFICATION

\* NOTE: The following hazards are based on the solvents.

R10 - Flammable

R20/21/22 - Harmful by inhalation, by contact with skin and if swallowed.

R36/37 - Irritating to eyes and respiratory system

HMIS Hazard Ratings: Health - 2, Flammability - 2, Chemical Reactivity - 0.

Note: HMIS and rating involve data and interpretation that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all information in this MSDS must be considered.

### SECTION 4 - FIRST AID MEASURES

#### EYE CONTACT:

Any material that contacts the eye should be washed out immediately with water. Get medical attention if symptoms persist.

#### SKIN CONTACT:

Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. If irritation develops and persists, get medical attention. Wash contaminated clothing before reuse and thoroughly clean contaminated shoes.

**INHALATION:**

Move to fresh air. Treat symptomatically. If necessary, get medical attention.

**INGESTION:**

Seek medical advice.

**SECTION 5 - FIRE FIGHTING MEASURES**

**FLASHPOINT (TAG CLOSED CUP):** 130° F (54.4°C) Minimum

**HAZARDOUS COMBUSTION PRODUCTS:**

During a fire, smoke may contain the original material in addition to unidentified toxic and/or irritating compounds. Hazardous combustion products may include and are not limited to: Carbon Monoxide, Carbon Dioxide and Aldehydes. Poisonous gases may be produced in a fire.

**EXTINGUISHING MEDIA:**

Water fog or fine spray, dry chemical, or carbon dioxide (CO<sub>2</sub>), foam.

**FIRE FIGHTING AND UNUSUAL FIRE AND EXPLOSION HAZARDS.**

Wear self-contained breathing apparatus and protective clothing. **USE WATER WITH CAUTION. DO NOT USE DIRECT WATER STREAM. IT MAY SPREAD FIRE.** Material will float and may ignite on surface of water. Water may be ineffective in fighting fire. Use water fog or fine spray to keep fire-exposed containers cool. Vapors may cause a flash fire or ignite explosively. **FLAMMABLE.** Vapors may travel considerable distance to a source of ignition and flash back. Prevent buildup of vapors or gases to explosive concentrations. Poisonous gases may be produced in a fire. Containers may explode.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

Map or soak up spillages in absorbent material. Dispose of in accordance with Local Authority Regulations.

**SECTION 7 - HANDLING and STORAGE**

**PERSONAL PRECAUTIONARY MEASURES:**

Avoid breathing vapor. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Use only with adequate ventilation. Wash thoroughly after handling.

**PREVENTION OF FIRE:**

Keep away from heat, sparks and flame. Keep from contact with oxidizing materials. Minimize exposure to air.

**STORAGE:**

Keep container closed. Store away from heat and light. Store in a well-ventilated place.

**SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

**EXPOSURE LIMITS -** Based on solvent(s).

**ACGIH Threshold Limit Value (TLV):** The recommended airborne exposure limit is 20 ppm averaged over a 10-hour work shift.

**OSHA (USA) Permissible Exposure Limit (PEL, 1989 Table Z-1-A values or Section Specific Standards):** The PEL is 50 ppm averaged over an 8-hour work shift.

**NIOSH Pocket Guide - TWA's:** 5 ppm TWA; 33 mg/m<sup>3</sup> TWA

**NIOSH Pocket Guide - IDLH's (Immediately Dangerous to Life or Health):** 1800 ppm IDLH

**ODOR THRESHOLD =** 0.27 ppm

**VENTILATION:**

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions.

**RESPIRATORY PROTECTION:**

Avoid inhalation of vapors. Ventilation is not required in open air environments or rooms with large volumes of fresh air.

Proper ventilation is required when operating in a small enclosed room to ensure an adequate supply of fresh air.

**SKIN PROTECTION:** Avoid contact with skin. Wear chemical resistant gloves where excessive contact is likely.

**EYE PROTECTION:** Avoid contact with eyes. Wear safety glasses if splashing is likely.

**RECOMMENDED DECONTAMINATION FACILITIES:**

Eye bath, washing facilities, safety shower.

**SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES**

**PHYSICAL STATE:**

Liquid

**APPEARANCE AND ODOR**

Black, magenta, cyan, yellow and/or white solvent based ink with a mild odor.

**FLASHPOINT (TAG CLOSED CUP):**

130° F (54.4°C) Minimum

**SPECIFIC GRAVITY:**

0.90 TO 0.99G/CC @ 25 Deg C

**SECTION 10 - STABILITY and REACTIVITY**

**CHEMICAL STABILITY:** Stable, however, forms peroxides of unknown stability.

**INCOMPATIBILITY:** Avoid heat and flame. Material can react with strong oxidizing agents

**HAZARDOUS POLYMERIZATION:** Will not occur

**HAZARDOUS DECOMPOSITION PRODUCTS:** None known

**SECTION 11 - TOXICOLOGICAL INFORMATION**

No toxicological testing has been done on this Product. The following information is based on the primary solvent in this Product: Acute Toxicity Data: Oral LD-50 (female rat): 2,400 mg/kg

**SECTION 12 - ECOLOGICAL INFORMATION**

This Product has not been tested for environmental effects.

**SECTION 13 - DISPOSAL CONSIDERATIONS**

Discharge, treatment, or disposal may be subject to national, state, or local laws. Incinerate. Since emptied containers retain product residue, follow label warnings even after container is emptied.

**SECTION 14 - TRANSPORT INFORMATION**

**U.S. AND INTERNATIONAL SHIPPING INFORMATION:**

**DOT/IMDG/ICAO/IATA REGULATIONS:**

**PROPER SHIPPING NAME:** Printing ink, flammable

**DOT HAZARD CLASS/DIVISION:** 3

**UN NUMBER:** UN1210

**PACKING GROUP:** PG III

**NOTE: U.S. DEPARTMENT OF TRANSPORTATION (DOT) REQUIREMENTS:**

Quantities of 450 liters (119 gallons) or less are not regulated if shipped by truck or rail via land only.

**SECTION 15 - REGULATORY INFORMATION**

This document has been prepared in accordance with the MSDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

OSHA Hazardous chemical(s): Diacetone Alcohol-CAS No. 123-42-2 and Proprietary solvents.  
California Prop. 65 (Safe Drinking Water and Toxic Enforcement Act of 1986): Material(s) known to cause cancer: None  
Massachusetts Substance List: Diacetone Alcohol-CAS No. 123-42-2 and Proprietary solvents  
New Jersey Workplace Hazardous Substance List: Diacetone Alcohol-CAS No. 123-42-2 and Proprietary solvents.  
Pennsylvania Hazardous Substance List: Diacetone Alcohol-CAS No. 123-42-2 and Proprietary solvents  
In addition to the above States, Diacetone Alcohol is subject to the Right-To-Know Regulations in IL and RI.

**STATE RIGHT-TO-KNOW INFORMATION:**

Dyes and/or Pigments, Vinyl Acrylic Copolymer and Proprietary Solvents claimed as Trade Secret.  
New Jersey Trade Secret Numbers: Black: 800814-6319; Cyan: 800814-6320; Magenta: 800814-6321; Yellow: 800814-6322; Light Cyan: 800814-6323; Light Magenta: 800814-6324; White: 800814-6317.

Carcinogenicity Classification (components present at 0.1% or more):  
--International Agency for Research on Cancer (IARC): Not Listed  
--American Conference of Governmental Industrial Hygienist: Not Listed  
--National Toxicology Program (NTP): Not Listed  
--Occupational Safety and Health Administration (OSHA): Not Listed

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372: Proprietary solvent.

SARA (U.S.A.) Sections 311 and 312 hazard classification(s): Diacetone Alcohol-CAS No. 123-42-2 and Proprietary solvent: Immediate (acute) health hazard; delayed (chronic) health hazard; fire hazard

The components in this product are listed on the following Chemical Inventories or qualify for an exemption: TSCA, DSL, EINECS and AICS or otherwise complies with NICNAS.

This document has been prepared in accordance with the MSDS requirements of the WHMIS controlled products regulation.

WHMIS (Canada) Ingredient Disclosure List: None  
WHMIS (Canada) Status: Controlled  
WHMIS (Canada) controlled material(s): solvent(s).  
WHMIS (Canada) Hazardous Classification: B/3, D/2/B

Classification according to EEC directive 88/379/EEC:  
Xn - Harmful; Xi - Irritant

Risk Phrases:

R10 - Flammable  
R20/21/22 - Harmful by inhalation, contact with skin and if swallowed.  
R36/37 - Irritating to eyes and respiratory system.

Safety Phrases:

S2 - Keep out of reach of children.  
S9 - Keep container in a well ventilated area.  
S20 - When using do not eat or drink.  
S-23 - Do not breath vapors  
S24/25 - Avoid contact with skin and eyes.

REVISIONS: SECTION(s) 3, 6, 11 & 15.

DISCLAIMER: The information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the users' responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use of this information. We do not accept liability for any loss or damage that may occur from the use of this information nor do we offer warranty against patent infringement.