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# MATERIAL SAFETY DATA SHEET

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## 1. PRODUCT & COMPANY IDENTIFICATION

### • PRODUCT NAME

ARTLINE® 450 INK (White, Yellow, Orange, Silver)

- NAME OF SUPPLIER: Shachihata Inc.
- NAME OF DEPARTMENT: Product Development Department
- ADDRESS: 1661 W. 240<sup>th</sup> Street, Harbor City, CA 90710 USA
- TELEPHONE NUMBER: (800) 424-9300 - 24 hour emergency contact  
(310) 530-4445 - During business hours
- FAX NUMBER: (310) 530-2892

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HEALTH:	2	CODE:	0=MINIMAL
FLAMMABILITY:	2		1=SLIGHT
REACTIVITY:	0		2=MODERATE
PERSONAL PROTECTION:	B		3=SERIOUS
			4=SEVERE

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## SECTION 2: HAZARDOUS INGREDIENTS

INGREDIENT	PERCENT	ACGIH-TLV	OSHA-PEL	CAS NO
Cellosolve Solvent*	3.00	5 PPM	200 PPM	110-80-5
Cellosolve Acetate	12.00	5 PPM	200 PPM	111-15-9
Diacetone Alcohol	12.00	50 PPM	50 PPM	123-42-2
Methyl Carbitol	18.00	None Estab	None Estab	111-77-3
Ethyl Alcohol	9.00	1000 PPM	1000 PPM	64-17-5

This chemical is subject to the reporting requirements of SARA TITLE III, Section 313 of the emergency planning and community right to know act of 1986 and of 40 CFR 372. This product is in compliance with the EPA TSCA inventory.

## SECTION 3: PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point: 336F  
Melting Point: -130 F  
Vapor Density: 4.0  
Specific Gravity: 0.9605  
Reactivity in Water: None  
Solubility in Water: Slight  
Auto Ignition: 715 F  
Vapor Pressure: <1 mm hg  
Appearance & Odor: Mobile Liquid, Mild Odor  
Appearance & Odor: VOC: 35.84 GMS/Liter  
LEL/UEL %: 1.5 14.0  
Flash Point: 120 F  
Method: Closed Cup

## SECTION 4: FIRE & EXPLOSION DATA

Extinguishing Media: Carbon Dioxide  
Extinguishing Media: Dry Chemical  
Extinguishing Media: Alcohol – Type Foam  
Extinguishing Media: Universal – Type Foam

**SECTION 4: FIRE & EXPLOSION DATA (Continued)****Extinguishing Media: Waterspray****Special Fire Procedures: Wear self-contained breathing apparatus****Special Fire Procedures: Wear protective clothing and equipment****Special Fire Procedures: Use waterspray to cool fire-exposed area****Special Fire Procedures: Use waterspray to protect personnel****Unusual Hazards: Wear suitable eye protection to prevent eye contact**

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**SECTION 5: REACTIVITY DATA****Stable, Y=Yes, N=No: Y****Conditions to Avoid: Heat, sparks and open flame****Incompatibility: Strong oxidizing agents****Hazardous Decomposition: Burning will produce CO<sub>2</sub> and/or CO****Hazardous Polymerization: Will not occur****Conditions to Avoid: None**

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**SECTION 6: Health Hazards****Acute: Headache, Nausea, Vomiting****Chronic: Skin and eye irritant****Chronic: Liver and kidney injury from overexposure****Signs & Symptoms of Exposure: Headache, nausea, vomiting****Signs & Symptoms of Exposure: Breathing difficulties****Signs & Symptoms of Exposure: Weakness****Signs & Symptoms of Exposure: irritation to eyes, nose & respiratory tract****Medical Conditions aggravated: In lab inhalation studies with animals, cellosolve & cello****Medical Conditions aggravated: acetate have cause birth defects in females and reproductive****Medical Conditions aggravated: problems in males. No human results cited.****Is chemical listed as carcinogen or potential carcinogen:****National Toxicology Program, Y=Yes, N=No: N****IARC Monographs, Y=Yes, N=No: N****OSHA, Y=Yes, N=No: N****First Aid for Inhalation: Remove to fresh air if overcome by vapor****First Aid for Eyes: Irrigate with clean water for 15 minutes****First Aid for Skin: Wash with soap and water; change clothing****First Aid for Ingestion: Give two glasses of lukewarm water****First Aid for Ingestion: Induce vomiting; call doctor****Routes of entry for inhalation: Avoid prolonged breathing of vapors****Routes of entry for eyes: Avoid contact with the eyes****Routes of entry for skin: Avoid repeated or prolonged skin contact****Routes of entry for ingestion: Do not take internally**

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**SECTION 7: SPECIAL PRECAUTIONS & SPILL/LEAK PROCEDURES****Handling & Storage: Keep container closed when not in use****Handling & Storage: Use only with adequate ventilation****Handling & Storage: Avoid prolonged breathing of vapors****Handling & Storage: Keep away from heat and flame****Steps if Spilled: Remove sources of ignition; ventilate****Steps if spilled: Contain & cover spill with an absorbent****Steps if spilled: Do not allow spill to enter waterways****Waste Disposal: Incinerate in chemical furnace****Waste Disposal: Must conform to local, state & federal regulations**

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**SECTION 8: SPECIAL PROTECTION INFORMATION**

**Respiratory Protection:** General room ventilation is adequate

**Ventilation:** Provide adequate cross air circulation

**Local Exhaust:** Preferable

**Mechanical:** Acceptance

**Special:** NIOSH Approved respirator for high vapor

**Protective Gloves:** Chemical impervious

**Eye Protection:** Splash glasses

**Other Protection:** Eyewash station

**Work/Hygienic Practices:** Practice reasonable care & caution when using ink.

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**SPECIAL MESSAGE SECTION:**

The hazards listed on this MSDS are taken from the MSDS for each of the ingredients in this mixture. In most cases, the maximum form of hazard is represented here. The TLV's represent the conditions under which it is believed that nearly all workers may be repeatedly exposed day after day without adverse effect. It must be remembered that each individual reacts differently and some may experience discomfort while others do not. This MSDS is presented so that each individual will have the information to deal safely with the use of this product. All materials TSCA listed.

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**DISCLAIMER SECTION:**

**Disclaimer of Liability:**

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim all liability for any use of this material. Information contained herein is given in good faith and believed to be true and accurate. But all statements or suggestions are made without any warranty, expressed or implied, regarding the accuracy of the information, the hazards connected with the use of the material or results to be obtained from the use thereof.

Information on MSDS supplied by ink mfg.

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