
MATERIAL SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

- **PRODUCT NAME**

ARTLINE® 450 INK (Red, Black, Blue, Green, Purple)

SKU #

25451	25453	25455	25852	25854
25452	25454	25851	25853	25855

- **NAME OF SUPPLIER:** Shachihata Inc. (U.S.A.)
- **NAME OF DEPARTMENT:** Product Development Department
- **24 HOUR EMERGENCY CONTACT:** (800) 424-9300
- **U.S.A. ADDRESS & TEL #:** 3305 Kashiwa Street
Torrance, CA 90505 USA
(310) 530-4445 During business hours
(310) 530-2892 (fax)

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

SECTION 2: HAZARDOUS INGREDIENTS

INGREDIENT	PERCENT	ACGIH-TLV	OSHA-PEL	CAS NO
Diacetone Alcohol	25.00	50 PPM	50 PPM	123-42-2
Ethyl Alcohol	18.00	1000 PPM	1000 PPM	64-17-5
Methyl Carbitol	31.00	None Estab	None Estab	111-77-3

SECTION 3: PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point: 381F
Melting Point: -12 F
Vapor Density: 4.14
Specific Gravity: 1.023
Reactivity in Water: None
Solubility in Water: Slight
Auto Ignition: 750 F
Vapor Pressure: 0.1 mm hg
Appearance & Odor: Mobile Liquid, Mild Odor
Appearance & Odor: VOC: 45.75 GMS/Liter
LEL/UEL %: 1.5 9.5
Flash Point: 118 F
Method: Closed Cup

SECTION 4: FIRE & EXPLOSION DATA

Extinguishing Media: Carbon Dioxide
Extinguishing Media: Dry Chemical
Extinguishing Media: Alcohol Resistant Foam
Extinguishing Media: Universal Foam
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 face shield to protect face and eyes from contact with liquid or vapor.

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 CO₂ and/or CO

Hazardous Polymerization: Will not occur

Conditions to Avoid: None

SECTION 6: Health Hazards

Acute: Skin and Eye Irritant: Dizziness

Chronic: None

Signs & Symptoms of Exposure: Headache, nausea, vomiting

Signs & Symptoms of Exposure: Irritation to eyes, nose and throat

Signs & Symptoms of Exposure: Narcosis if swallowed

Signs & Symptoms of Exposure: Weakness

Medical Conditions aggravated: Pre-existing skin disorders

Medical Conditions aggravated: Pre-existing respiratory disorder

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

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: Keep away from heat and flame

Handling & Storage: Do not get in eyes or take internally

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

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection: General room ventilation is satisfactory

Ventilation: Provide adequate cross air circulation

Local Exhaust: Preferable

Mechanical: Acceptance

Special: NIOSH Approved respirator when necessary

Protective Gloves: Chemical impervious

Eye Protection: Splash glasses

Other Protection: Eyewash station

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

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.

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.
