

# Safety Data Sheet (MSDS)

Issued Date : Apr. 2nd, 2007

Revised Date : Jan. 11th, 2018

## SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name** : Artline Permanent Markers Colour : (Black)

K-041T


**Company Name** : Shachihata Inc.

**Address** : 4-69, Amazuka-cho, Nishi-ku, Nagoya City, 451-0021, Japan

**Telephone** : + 81- 52- 521- 3600

**Fax** : + 81- 52- 521- 3899

**Contact (e-mail)** : [chem-analysis@ngy.shachihata.co.jp](mailto:chem-analysis@ngy.shachihata.co.jp)
**Emergency Call** : + 81- 52- 521- 3600 (Shachihata Inc. [Japan] )

**Recommended use** : Permanent marker ink


## SECTION 2 HAZARDS IDENTIFICATION

### GHS Classification

#### Physical Hazards

Flammable liquids

Category 2

#### Health Hazards

Serious eye damage

Category 1

Specific target organ toxicity ; single exposure

Category 3 (respiratory tract irritation, narcotic effects)

#### Environmental Hazards

Hazardous to the aquatic environment (acute)

Classification not possible

Hazardous to the aquatic environment (chronic)

Classification not possible

Hazardous to the ozone layer

Classification not possible

### LABEL ELEMENTS

#### Symbols


**Signal word** : Danger

**Hazard statement** : Highly flammable liquid and vapour  
 Causes serious eye damage  
 May cause respiratory irritation  
 May cause drowsiness or dizziness

(H225)

(H318)

(H335)

(H336)

#### Precautionary statement

##### 【Prevention】

Keep out of reach of children.

(P102)

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

(P210)

Take precautionary measures against static discharge.

(P243)

Avoid breathing vapours.

(P261)

Use only outdoors or in a well-ventilated area.

(P271)

Wear eye protection.

(P280)

##### 【Response】

In case of fire : Use dry chemical powder, foam or carbon dioxide to extinguish.

(P370+P378)

IF INHALED : Remove person to fresh air and keep comfortable for breathing.

(P304+P340)

IF IN EYES : Rinse cautiously with water for several minutes.

(P305+P351+P338)

Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists : Get medical advice and attention.

(P337+P313)

Immediately call a POISON CENTER or physician.

(P310)

IF ON SKIN (or hair) : Take off immediately all contaminated clothing. Rinse skin with water.

(P303+P361+P353)

If skin irritation occurs : Get medical advice and attention.

(P332+P313)

#### 【Storage】

Store in a well-ventilated place. Keep container tightly closed.

(P403+P233)

#### 【Disposal】

Dispose of contents and container in accordance with local regulations.

(P501)

## SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

**Substance / Mixture** : Mixture

**Ingredients** :

Chemical Name / Generic name	Composition weight %	CAS Registry No.	Hazard Class (category)	Hazard statement
Ethanol	25 ~ 35	64-17-5	Flam. Liq. 2	H225
1-methoxypropan-2-ol	20 ~ 30	107-98-2	Flam. Liq. 3 STOT. SE. 3	H226 H336
Ethyl lactate	20 ~ 30	97-64-3	Flam. Liq. 3 Eye Dam. 1 STOT. SE. 3	H226 H318 H335
Synthetic resin	1 ~ 10	Confidential	none	none
Dyestuff	10 ~ 20	Confidential	none	none
total	100			

★★ This ink contain chromium compounds,dyestuff (Trivalent chromium, not Hexavalent chromium ).

## SECTION 4 FIRST-AID MEASURES

- IF INHALED** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Consult a doctor if symptoms persist.
- IF ON SKIN** : Remove / Take off immediately all contaminated clothing. Wash with soap and water. If skin irritation/rash occurs or feel unwell, consult a doctor for medical advice.
- IF IN EYES** : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.
- IF SWALLOWED** : After rinse mouth immediately, give about 250 ml of water or milk and thin in the stomach, and do not vomit forcibly. Moreover, do not give anything from the mouth to the patient when not conscious. Receive the doctor's treatment (stomach pump) promptly.

## SECTION 5 FIRE-FIGHTING MEASURES

**SUITABLE EXTINGUISHING MEDIA** : Dry chemical powder, foam or carbon dioxide

**UNSUITABLE EXTINGUISHING MEDIA** : Water jet

#### SPECIFIC EXTINCTION METHOD

For initial stage extinction, carbon dioxide or dry chemical powder.

When a fire extends, fire is extinguished by a large amount of water spray.

Do not discharge extinguishing waters into the aquatic environment.

#### SPECIAL PROTECTIVE FOR FIRE- FIGHTERS

In the extinction work, an appropriate protective equipment (gloves, glasses, and mask) has to be worn.

Because during a fire, hazardous gases may be generated, fire-fighters have to wear self-contained breathing apparatus and other protective equipment.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

#### PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Evacuate personnel to safe area. Shut off all sources of ignition.

No Flares, smoking or flame in area. Put on protective equipment. Ensure adequate ventilation.

#### ENVIRONMENTAL PRECAUTIONS

Do not throw the leakage thing directly into environment

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP**

In case of a small spill, remove by absorbing with absorbents (sawdust, soil, sand, waste cloth, etc.), and then wipe off the waste well with waste cloth, and rag.

In case of large spills, prevent leakage by enclosing with nonflammables (earth and sand, etc.) and collect into empty container by scoop, suction equipment or the like.

**SECONDARY ACCIDENT PREVENTION MEASURE**

All ignition sources should be quickly removed. (No smoking in vicinity, prohibit sparks or fire sources.)

**SECTION 7 HANDLING AND STORAGE**

**Handling** : Use with adequate ventilation.  
 Avoid contact with skin, eyes and clothing.  
 Obtain special instructions before use.  
 Do not handle until all safety precautions have been read and understood.  
 Do not eat, drink or smoke when using this product.

**Storage** : Keep containers tightly closed and store in a cool and dry place.  
 Keep away from heat and flame, ignition source and sunlight.  
 Keep out of the reach of children.

**SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION****OCCUPATIONAL EXPOSURE LIMIT**

ACGIH (2017)

Ethanol	STEL	1,000 ppm
1-methoxypropan-2-ol	TWA	50 ppm

OSHA PEL

Ethanol	TWA	1,000 ppm
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DIRECTIVE 2000/39/EC

1-methoxypropan-2-ol	TWA	100 ppm
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Japan Society for Occupational Health (2017) none

**PERSONAL PROTECTION**

**Respiratory Protection** : Use with local exhaust ventilation, when in long use.  
 Avoid breathing vapours. Wear mask to prevent organic gas, if necessary.

**Hand Protection** : Avoid contact with hands. Wear safety gloves, if necessary.

**Eye Protection** : Avoid contact with eyes. Wear safety glasses, if necessary.

**Skin Protection** : Avoid skin contact. Wear personal protection apron, boots, if necessary.

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance** : black liquid  
**Odour** : minor solvent odour  
**pH** : Not applicable  
**Boiling point** : 78 ~ 154°C  
**Flash point** : 19°C (closed cup)  
**Relative Density (at 25°C)** : 0.85 ~ 0.95 (g/cm<sup>3</sup>)  
**Solubility in Water** : Insoluble

**SECTION 10 STABILITY AND REACTIVITY**

**Stability** : Stable under normal handling.  
**Conditions to Avoid** : High temperature, Direct sunlight, Fire  
**Incompatible Materials** : Strong oxidising agents  
**Hazardous Decomposition Products** : CO, CO<sub>2</sub>

**SECTION 11 TOXICOLOGICAL INFORMATION**

<b>Acute toxicity</b>	: LD/LC50 values that are relevant for classification
	[Ethanol]
	Oral-rat LD50 >5,000 mg/kg
	Inhalation-rat LC50 >20 mg/L/4h
	[1-methoxypropan-2-ol]
	Oral-rat LD50 >2,000 - <=5,000 mg/kg
	Dermal-rabbit LD50 >5,000 mg/kg
	Inhalation-rat LC50 >20 mg/L/4h
	[Ethyl lactate]
	Oral-rat LD50 >2,000 mg/kg
	Dermal-rabbit LD50 >5,000 mg/kg
<b>Serious eye damage</b>	: Category 1 Causes serious eye damage
<b>Specific target organ toxicity (single exposure)</b>	: Category 3 May cause respiratory irritation May cause drowsiness or dizziness
<b>Carcinogenicity</b>	: This product does not contain any component that is considered a human carcinogen by IARC, ACGIH, EPA, EU or NTP.

**SECTION 12 ECOLOGICAL INFORMATION**

<b>Hazardous to the aquatic environment (acute)</b>	: Classification not possible
<b>Hazardous to the aquatic environment (chronic)</b>	: Classification not possible
<b>Hazardous to the ozone layer</b>	: Classification not possible

**SECTION 13 DISPOSAL CONSIDERATIONS**

Disposal must be made according to official regulations.  
 Comply with all Federal, State, and Local regulations regarding disposal.  
**Do not allow product to reach ground, any water course or sewage system.**

**SECTION 14 TRANSPORT INFORMATION**

<b>UN number</b>	(DOT, ADR, IMDG, IATA)	: UN1210
<b>UN proper shipping name</b>	(DOT, ADR, IMDG, IATA)	: PRINTING INK, flammable
<b>UN Classification</b>		: 3
<b>Packing group</b>	(DOT, ADR, IMDG, IATA)	: II
<b>Marine pollutant (Y/N)</b>		: N
<b>EmS number</b>		: F-E,S-D



☆☆

Artline Permanent Marker (K-041T) is not a hazardous material by the special provision.

Artline Permanent Marker (K-041T) (The amount of ink : less than 10ml)

UN number	: UN3175
UN proper shipping name	: Solids containing Flammable Liquid. n.o.s.
IATA	Special Provision A46
IMDG Code	Special Provision 216

According to IATA Special Provision A46, and IMDG Code Special Provision 216, small inner packagings consisting of sealed packets and articles containing less than 10 mL of a Class 3 liquid in Packing Group II or III absorbed onto a solid material are not subject to as a hazardous material/dangerous goods provided there is no free liquid in the packet or article.

**SECTION 15 REGULATORY INFORMATION**

## &lt; EU Information &gt;

## Regulation (EC) No 1272/2008 (CLP)

Substance name	: [Ethanol]
Hazard Class & Category	: Flammable liquids, Category 2
Symbols	: GHS02
Signal word	: Danger
Hazard statements	: H225 Highly flammable liquid and vapour
Substance name	: [1-methoxypropan-2-ol]
Hazard Class & Category	: Flammable liquids, Category 3 Specific target organ toxicity - single exposure, Category 3
Symbols	: GHS02,GHS07
Signal word	: Warning
Hazard statements	: H226 Flammable liquid and vapour H336 May cause drowsiness or dizziness
Substance name	: [Ethyl lactate]
Hazard Class & Category	: Flammable liquids, Category 3 Serious eye damage, Category 1 Specific target organ toxicity - single exposure, Category 3
Symbols	: GHS02,GHS07,GHS05
Signal word	: Danger
Hazard statements	: H226 Flammable liquid and vapour H318 Causes serious eye damage H335 May cause respiratory irritation

## &lt; USA Information &gt;

OSHA STATUS : This product is hazardous under 29 CFR 1910.1200.

TSCA STATUS : All components on TSCA INVENTORY.

TSCA Hazard Communication Program (40 CFR Part 721) (SNUR) : Not Applicable

CERCLA REPORTABLE QUANTITY (40 CFR 117,302) : Not Applicable

SARA TITLE III Section 313 (40 CFR 372) : Not Applicable

California Proposition 65 (Chemicals known to cause cancer) : Not listed

Refer to any other federal, state, EU, national and local regulations.

**SECTION 16 OTHER INFORMATION**

EU RoHS Directive(2011/65/EC)

ELV Directive(2000/53/EC)

This data sheet may not be enough when evaluating danger or hazard. The above information, which is created from currently available documents, information and data, may be revised when new findings announced. This document has been written on the assumption that when dealing with a large amount of ink on the business case and emergency. When handling as a normal product, please refer to the notes that is described in the produce or packaging. The information contained herein is not intended to provide any kind of warranty other than information, there is no guarantee for the accuracy of the content.