

# MATERIAL SAFETY DATA SHEET

<b>PRODUCT :</b> Artline PAINT MARKER EK-409XF,EK-400XF,EK-440XF,EK-444XF (All colours)
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**Issue Date** 12 May, 2016

## IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name : Artline PAINT MARKER

Recommended use : Paint marker

Supplier name/address/telephone no./Emergency phone number

[JAPAN]

MANUFACTURER/SUPPLIER : Shachihata Inc.

ADDRESS : 4-69,Amazuka-chou,Nishi-ku,Nagoya,451-0021,Japan

TELEPHONE NUMBER : ++81 52 521 3600

FAX NUMBER : ++81 52 521 3899

[AUSTRALIA]

AGENT : Pelikan Artline Pty Limited

ABN : 51 084 958 556

ADDRESS : 2 Coronation Avenue,Kings Park,Blacktown Business Centre NSW 2148

TELEPHONE NUMBER : 02-9674-0900

FAX NUMBER : 02-9674-0910

EMERGENCY TELEPHONE : 02-9674-0900 or Mobile : 0423-782-595

## HAZARDS IDENTIFICATION

Classified as Hazardous according to criteria of Worksafe Australia

Substance name : [Methylcyclohexane ]

Classification : F; R11 Xn; R65 Xi; R38-R67 N; R51/53

R-Phrase : R11 Highly flammable.

R38 Irritating to skin.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65 Harmful : may cause lung damage if swallowed.

R67 Vapours may cause drowsiness and dizziness.

S-Phrase : S2 Keep out of the reach of children.

S9 Keep container in a well-ventilated place.

S16 Keep away from sources of ignition - No smoking.

S33 Take precautionary measures against static discharges.

S61 Avoid release to the environment.

Refer to special instructions/Safety data sheets.

S62 If swallowed, do not induce vomiting : seek medical advice immediately and show this container or label.

Symbols and indications of danger specific F : Highly flammable

Xn : Harmful

N : Dangerous for the environment

Substance name : [Isoparaffinic Hydrocarbon-a]

Classification : F; R10 - Xn; R65-66 N; R51/53

R-Phrase : R10 Flammable.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects

in the aquatic environment.

R65 Harmful : may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.

S-Phrase : S23 Do not breathe gas/fumes/vapour/spray.

S24 Avoid contact with skin.

S33 Take precautionary measures against static discharges.

S43 In case of fire, use dry chemical powder, foam or carbon dioxide.

S62 If swallowed, do not induce vomiting : seek medical advice immediately and show this container or label.

Symbols and indications of danger specific Xn : Harmful

Substance name : [Isoparaffinic Hydrocarbon-b]

Classification : F; R11 Xn; R65 Xi; R38-R67 N; R51/53

R-Phrase : R11 Highly flammable.

R38 Irritating to skin.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65 Harmful : may cause lung damage if swallowed.

R67 Vapours may cause drowsiness and dizziness.

S-Phrase : S2 Keep out of the reach of children.

S9 Keep container in a well-ventilated place.

S16 Keep away from sources of ignition - No smoking.

S33 Take precautionary measures against static discharges.

S61 Avoid release to the environment.

Refer to special instructions/Safety data sheets.

S62 If swallowed, do not induce vomiting : seek medical advice immediately and show this container or label.

Symbols and indications of danger specific F : Highly flammable

Xn : Harmful

N : Dangerous for the environment

## COMPOSITION / INFORMATION ON INGREDIENTS (INK)

Chemical Name / Generic name	Composition weight %			CAS Registry No.
	White	Black	Others	
Methylcyclohexane	25 ~ 35	40 ~ 50	—	108-87-2
Isoparaffinic Hydrocarbon-a	5 ~ 15	1 ~ 10	—	Confidential
Isoparaffinic Hydrocarbon-b	—	—	40 ~ 60	Confidential
Titanium oxide	30 ~ 40	—	5 ~ 25	13463-67-7
Carbon black	—	1 ~ 10	—	1333-86-4

## 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.

## FIRE FIGHTING MEASURES

### Extinguishing media

Suitable extinguishing media : Dry chemical powder, foam or carbon dioxide

Unsuitable extinguishing media : Water jet

### Special hazards arising from the substance or mixture

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.

### Advice for firefighters

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.

## 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 material 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.

## HANDLING AND STORAGE

### Precautions for safe handling

Advice on safe 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.

### Conditions for safe storage, including any incompatibilities

Requirements for storage : Keep containers tightly closed and store in a cool and dry place.

areas and containers Keep away from heat and flame,ignition source and sunlight.

Keep out of the reach of children.

## EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control parameters

#### Australian exposure standards(2013)

Methylcyclohexane	TWA	400ppm
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Titanium dioxide	TWA	10 mg/m <sup>3</sup>
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Carbon black	TWA	3 mg/m <sup>3</sup>
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#### EH40/2005 Workplace exposure limits

Titanium dioxide	TWA	10 mg/m <sup>3</sup>
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Carbon black	TWA	3.5 mg/m <sup>3</sup>
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## ACGIH (2015)

Methylcyclohexane	TWA	400ppm
Titanium dioxide	TWA	10 mg/m <sup>3</sup>
Carbon black	TWA	3 mg/m <sup>3</sup>

## Exposure controls

## Personal protective equipment

- 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.

## Environmental exposure controls

- General advice : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

<b>PHYSICAL AND CHEMICAL PROPERTIES (INK)</b>
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Appearance	: liquid
Odour	: solvent odour
pH	: Not applicable
Boiling point	: No data available
Flash point	: White, Black -3 °C (closed cup) Other colours 11 °C (closed cup)
Relative Density (at 25°C)	: White 1.2 ~ 1.4 (g/cm <sup>3</sup> ) Other colours 0.8 ~ 1.1 (g/cm <sup>3</sup> )
Solubility in Water	: Insoluble

<b>STABILITY AND REACTIVITY</b>
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## Reactivity

No dangerous reaction known under conditions of normal use.

## Chemical stability

Thermally stable at typical use temperatures.

## Possibility of hazardous reactions

No data available

## Conditions to Avoid

High temperature, Direct sunlight, Fire

## Incompatible Materials

No data available

## Hazardous decomposition products

CO, CO<sub>2</sub>

<b>TOXICOLOGICAL INFORMATION</b>
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## Information on toxicological effects

Acute toxicity	: LD/LC50 values that are relevant for classification
	[Methylcyclohexane ]
	Oral-rat LD50 >5,000 mg/kg
	Dermal-rabbit LD50 >2,000 mg/kg
	Inhalation-rat LC50 >20 mg/L/4h

## [Isoparaffinic Hydrocarbon-a]

Oral-rat LD50 &gt;5,000mg/kg

Dermal-rabbit LD50 &gt;5,000mg/kg

## [Isoparaffinic Hydrocarbon-b]

Oral-rat LD50 &gt;5,000 mg/kg

Dermal-rabbit LD50 &gt;2,000 mg/kg

Inhalation-rat LC50 &gt;20 mg/L/4h

**Carcinogenicity** : Titanium dioxide and carbon black has been classified by the IARC as Group 2B. Other materials ; Not contain any component that is considered a human carcinogen by IARC, ACGIH, EPA, EU or NTP .

Regarding the carcinogenicity of titanium dioxide and carbon black, International Agency for Research on Cancer (IARC) has classified as a group 2B. However, ACGIH(American Conference of Governmental Industrial Hygienists) ,EPA(Environmental Protection Agency),EU (European Chemicals Agency), NTP (National Toxicology Program, USA) in the classification of suspected carcinogenic to humans has not been done. Therefore, as the ink product we could not classify the carcinogenicity of GHS from that there is no sufficient data.

## ECOLOGICAL INFORMATION

Ecotoxicity : No data available  
 Persistence and degradability : No data available  
 Bioaccumulative potential : No data available  
 Mobility in soil : No data available  
 Other adverse effects : No data available

## DISPOSAL CONSIDERATIONS

### Disposal Methods

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.

## TRANSPORT INFORMATION

UN number	ADG, IMDG, IATA	: UN1210
UN proper shipping name	ADG, IMDG, IATA	: PRINTING INK,flammable
Transport hazard class(es)	ADG, IMDG, IATA	: · Class 3 (Flammable liquids.) · Label 3
Packing group	ADG, IMDG, IATA	: II
Environmental hazards	Marine pollutant	: No
Special precautions for user	EMS Number	: F-E,S-D
HAZCHEM Code		: 3YE (ADG7)



## REGULATORY INFORMATION

This product does not contain any hazardous chemical that has been determined by Montreal Protocol (Ozone depleting substances),The Stockholm Convention (Persistent Organic Pollutants),and The Rotterdam Convention (Prior Informed Consent).

**OTHER INFORMATION**

**Contact Point** : Mr. C Watt , Product Manager , Phone(02-9674-0900) Fax(02-9674-0910)

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.