# **MATERIAL SAFETY DATA SHEET**

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Artline POSTER MARKER TEMPERA

EPP-4, EPP-6, EPP-12, EPP-20, EPP-30 (All colors)

General Use Water based marker

MSDS Number EA5001A-0101

MANUFACTURER

Company Name Shachihata Co.,Ltd.

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Telephon Number ++ 81 52 521 3600 Fax Number ++ 81 52 521 3899

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Mixture Mixture

**Hazardous Ingredients** 

Chemical or	wt.%				CAS(TSCA)	<b>EINECS</b>
Common Name(s)	Black	White/Grey	Fluo.Color	Other Color	Number	Number
Ethanol	1~10	1 ~ 10	1 ~ 10	1 ~ 10	64-17-5	200-578-6
Titanium dioxide	-	30 ~ 40	1 ~ 10	10 ~ 20	13463-67-7	236-675-5
Carbon black	1 ~ 10	-	-	-	1333-86-4	215-609-9

EU symbol(s) and risk phrase(s) is specified in 15. REGULATORY INFORMATION.

## 3. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW** 

May cause allergic skin reaction.

POTENTIAL HESALTH EFFECT

No data available

POTENTIAL ENVIRONMENTAL EFFECTS

No data available

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## 4. FIRST AID MEASURES

INHALATION Move to well ventilated place.

See medical advice immediately.

EYE Immediately flush with plenty of water.

See medical advice immediately.

SKIN Wipe off with dry cloth and wash with mild soap.

See medical advice immediately.

INGESTION See medical advice immediately.

PROTECTION TO FIRST - AIDERS

No data available

NOTE TO PHYSICIAN

Treatment may vary with condition of victim and specifics of incident.

## 5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

Flammable

**EXTINGUISHING MEDIA** 

Dry chemical powder, foam or carbon dioxide.

FIRE FIGHTING INSTRUCTIONS

Wear full fire-fighting turn-out gear and respiratory protection.

## 6. ACCIDENTAL RELEASE MEASURES

LAND SPILL Wipe off with dry cloth.

WATER SPILL Contain spilled liquid with sand or earth.

Do not use combustible materials, such as sawdust.

## 7. HANDLING AND STORAGE

HANDLING: Use only in the well-ventilated areas.

Avoid contact with skin or eyes, or clothing.

Avoid inhalation and ingestion. Avoid high temp. and fire. Wash throughly after handling.

STORAGE: Store in a cool, dry, well-ventilated location.

Keep away from heat, sunlight. Keep away from children.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

## **EXPOSURE LIMIT VALUES**

OSHA PEL (2002)

[Ethanol] TWA 1,000 ppm $(1,900 \text{ mg/m}^3)$ 

[Carbon black] TWA 3.5 mg/m<sup>3</sup>

[Titanium dioxide] TWA 15 mg/m³ (total dust)

ACGIH TLV (2002)

[Ethanol] TWA 1,000 ppm [Carbon black] TWA 3.5 mg/m<sup>3</sup>

[Titanium dioxide] TWA 10 mg/m<sup>3</sup>

EN LIMIT (2000/39/EN)

Not established

#### **EXPOSURE CONTROLS**

Occupational Exposure Controls

**Engineering Controls** 

Use exhaust ventilation to keep airborne concentration below exposure limits.

Personal Protection

Respiratory Protection

Use with local exhaust ventilation, when in long use.

Hand Protection

Not required, but wear safety gloves, if necessary.

Eye Protection

Not required, but wear safety glasses, if necessary.

Skin Protection

To prevent ANY contact, wear impervious clothing such as gloves, apron, as appropriate.

Environmental Exposure Controls

Not established

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state Liquid Odor None pH  $7 \sim 9$ 

Boiling Point / Boiling Range No data available Flash Point  $45 \sim 55$  (closed cup) Explosive Properties No data available Relative Density (g/cm<sup>3</sup>) 1.1  $\sim$  1.4 g/cm<sup>3</sup>

Solubility [ Water ] soluble

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## 10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID No data available

STABILITY No data available

MATERIALS TO AVOID No data available

HAZARDOUS REACTIONS / DECOMPOSITION PRODUCTS

No data available

## 11. TOXICOLOGICAL INFORMATION

Acute Toxicity (RTECS: 2002.3)

[Ethanol]

Oral  $LD_{50}$  (rat) 7,060 mg/kg

Inhalation LC<sub>50</sub> (rat) 20,000 ppm/10H

[Carbon black]

Oral  $LD_{50}$  (rat) > 15,400 mg/kg

Inhalation  $TCL_0$  (rat) 50 mg/ m<sup>3</sup>/6H/90D-I

## 12. ECOLOGICAL INFORMATION

ECOTOXICITY No data available

BIOACCUMULATIVE POTENTIAL No data available

OTHER ADVERSE EFFECTS No data available

### 13, DISPOSAL CONSIDERATIONS

Comply with all federal, state, EU, national and local regulations.

Do not dump this product into sewers, on the ground or into any body of water.

## 14. TRANSPORT INFORMATION

UN CLASS 3

UN Packing Group (PG)

UN NUMBER 1210

Proper Shipping Name Printing ink, flammable

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## 15. REGULATORY INFORMATION

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

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

TSCA STATUS: All components on TSCA INVENTORY.

CERCLA REPORTABLE QUANTITY (40 CFR 117,302):

Not applicable

SARA TITLE : Not applicable

This product is classified as follows,

[Ethanol]: [F] R:11 S; (2-)7-16

Symbol: F (Highly flammable) Risk Phrase: 11 (Highly flammable)

Safety Advice: 2 (Keep out of the reach of children.)

7 (Keep container tightly closed.)

16 (Keep away from sources of ignition – No smoking.)

Please refer to any other EU, national and local measures.

## 16. OTHER INFORMATION

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