

22129-XXXX

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Issued: 2006/06/06

MATERIAL SAFETY DATA SHEET**1. PRODUCT AND COMPANY IDENTIFICATION**

Product Name Artline POSTER MARKER EPP-4,EPP-6,EPP-12,EPP-20,EPP-30
 Basic Color (9) : Black, Blue, Red, Green, Brown,
 Orange, Purple, Yellow, White
 Fluo. Color (4) : Fluo.Yellow, Fluo.Orange,
 Fluo.Pink, Fluo.Green
 Metallic Color (6) : Gold, Silver, Metallic Blue, Metallic Red
 Metallic Green, Metallic Purple

General Use Water based marker
 MSDS Number EA5001C-0101

MANUFACTURER

Company Name Shachihata Co.,Ltd.
 Address 4-69,Amatuka-chou,Nishi-ku,Nagoya-shi,Aichi-ken,Japan
 Telephone Number ++ 81 52 521 3600
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2. COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Mixture	Mixture						CAS(TSCA) Number	EINECS Number
	Hazardous Ingredients		Fluo. Color	Metallic Color	Other Color	wt. %		
Chemical or Common Name(s)	Black	White						
Ethanol	—	1~10	1~10	1~5	—	64-17-5	200-578-6	
2-Propanol,1-methoxy-	—	—	—	1~5	—	107-98-2	203-539-1	
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 HEALTH EFFECT

No data available

POTENTIAL ENVIRONMENTAL EFFECTS

No data available

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MATERIAL SAFETY DATA SHEET**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 thoroughly after handling.
- STORAGE :** Store in a cool, dry, well-ventilated location.
Keep away from heat, sunlight.
Keep away from children.

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MATERIAL SAFETY DATA SHEET**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

EXPOSURE LIMIT VALUES

OSHA PEL (1994)	[Ethanol]	TWA 1,000 ppm(1,900 mg/m ³)
	[Carbon black]	TWA 3.5 mg/m ³
	[Titanium dioxide]	TWA 15 mg/m ³ (total dust)
ACGIH TLV (2003)	[Ethanol]	TWA 1,000 ppm
	[2-Propanol,1-methoxy-]	TWA 100 ppm
	[Carbon black]	TWA 3.5 mg/m ³
	[Titanium dioxide]	TWA 10 mg/m ³
EN LIMIT (2003/39/EN)	[2-Propanol,1-methoxy-]	
	eight hours	100 ppm (375 mg/m ³) (skin)
	Short-term	150 ppm (568 mg/m ³) (skin)

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	No data available
Boiling Point / Boiling Range	No data available
Flash Point	Metallic: 58 °C (closed cup) Others : 45~55 °C (closed cup)
Explosive Properties	No data available
Relative Density (g/cm ³)	Metallic: 1.0~1.1 g/cm ³ Others : 1.1~1.4 g/cm ³
Solubility [Water]	soluble

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MATERIAL SAFETY DATA SHEET**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 : 2004.11)

[Ethanol]			
	Oral	LD ₅₀ (rat)	7,060 mg/kg
	Inhalation	LC ₅₀ (rat)	20,000 ppm/10H
[2-Propanol,1-methoxy-]			
	Oral	LD ₅₀ (rat)	6,600 mg/kg
	Inhalation	LC ₅₀ (rat)	10,000 ppm/5H
[Carbon black]			
	Oral	LD ₅₀ (rat)	> 15,400 mg/kg
	Inhalation	TCL ₀ (rat)	50 mg/ m ³ /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)	III
UN NUMBER	1210
Proper Shipping Name	Printing ink, flammable

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MATERIAL SAFETY DATA SHEET**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 III: Not applicable

This product is classified as follows ,

[Ethanol] :	[F]	R:11	S: (2-)7-16
[2-Propanol,1-methoxy-] :		R:10	S: (2-)24

Symbol :	F	(Highly flammable)
Risk Phrase :	10	(Flammable)
	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.)
	24	(Avoid contact with skin.)

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

16. OTHER INFORMATION

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