

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	Artline ECO-GREEN PERMANENT MARKER (Black)(Blue)(Red)(Green)	EK-177,199
	Artline ECO-GREEN PERMANENT MARKER INK	ESK-ND
General Use	Permanent marker	
MSDS Number	EA3008A-4901	

MANUFACTURER

Company Name	Shachihata Inc.
Address	4-69,Amazuka-cho,Nishi-ku,Nagoya City,451-0021,Japan
Telephone Number	++ 81 52 521 3600
Fax Number	++ 81 52 521 3899

2. COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Mixture	Mixture
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Hazardous Ingredients

Chemical or Common Name(s)	wt.%		CAS(TSCA) Number	EINECS Number
1-Propanol	80 ~ 90	Blue ,Green	71-23-8	200-746-9
Benzenemethanol	-	Black,Red	100-51-6	202-859-9

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

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Flammable liquid with a solvent odor.
May cause allergic skin reaction.

POTENTIAL HEALTH 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
 Highly 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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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMIT VALUES

OSHA PEL (1994)	[1-Propanol]	TWA	200 ppm (500mg/m ³)
ACGIH TLV (2003)	[1-Propanol]	TWA	200 ppm
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	minor solvent odor
Boiling Point / Boiling Range	No data available
Flash Point	25
Explosive Properties	No data available
Relative Density (g/cm ³)	0.9 ~ 1.0 g/cm ³
Solubility [Water]	Insoluble

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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 : 2004-11)

[1-Propanol]			
Oral	LD ₅₀ (rat)	1,870	mg/kg
Inhalation	LC ₅₀ (rat)	4,000	ppm/4H
Skin	LD ₅₀ (rabbit)	5,040	mg/kg
[Benzene]methanol]			
Oral	LD ₅₀ (rat)	1,230	mg/kg
Inhalation	LC ₅₀ (rat)	> 500	mg/m ³
Skin	LD ₅₀ (rabbit)	2,000	mg/kg

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

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 ,

[1-Propanol] :	[F,Xi]	R:11-41-67	S: (2-)7-16-24-26-39
[Benzinemethanol] :	[Xn]	R:20/22	S: (2-)26

Symbol :	F	(Highly Flammable)
	Xi	(Irritant)
	Xn	(Harmful)
Risk Phrase :	11	(Highly flammable)
	20/22	(Harmful by inhalation and if swallowed)
	41	(Risk of serious damage to eyes)
	67	(Vapours may cause drowsiness and dizziness.)
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.)
	26	(In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.)
	39	(Wear eye/face protection.)

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

16. OTHER INFORMATION

This information is furnished without warranty,express or implied,

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use in combination with any other material or process.

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