

MATERIAL SAFETY DATA SHEET

[MSDS NO. AA3012B-9401]

PRODUCT :	Artline GARDEN Marker	EK-780 (Black)
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Issue Date 6 May,2011

IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name : Artline garden marker EK-780
Other Names : Permanent marker
Recommended Use : Permanent marker

Supplier name/address/telephone no./Emergency phone number**[JAPAN]**

SUPPLIER NAME : Shachihata Inc.
ADDRESS : 4-69,Amazuka-cho,Nishi-ku,Nagoya,451-0021,Japan
TELEPHONE NO.: ++ 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 NO.: 02-9674-0900
FAX NO.: 02-9674-0910
EMERGENCY PHONE NUMBER : 02-9674-0900 or Mobile: 0419-206-163

HAZARDS IDENTIFICATION

Classified as Hazardous according to the criteria of Worksafe Australia

[Ethanol] :	[F]	R:11	S; (2-)7-16
[2-Propanol,1-methoxy] :		R:10	S: (2-)24
[Propanoic acid,2-hydroxy-,ethyl ester] :	[Xi]	R:10-37-41	S:(2-)24-26-39

Symbol :	F	(Highly Flammable)
	Xi	(Irritant)
Risk Phrase :	10	(Flammable)
	11	(Highly flammable)
	37	(Irritating to respiratory system)
	41	(Risk of serious damage to eyes)
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.)

COMPOSITION / INFORMATION ON INGREDIENTS (INK)

<MIXTURE>

Chemical or Common Name(s)	wt. %	black	CAS(TSCA) Number
Ethanol		30~40	64-17-5
2-Propanol,1-methoxy		20~30	107-98-2
Propanoic acid,2-hydroxy-, ethyl ester		20~30	97-64-3

FIRST AID MEASURES**SWALLOWED :**

Not applicable

EYE CONTACT :

Immediately flush with plenty of water.

Seek medical advice immediately.

SKIN CONTACT :

Wipe off with dry cloth and wash with mild soap.

Seek medical advice immediately.

INHALATION :

Move to well ventilated place.

Seek medical advice immediately.

FIRST AID FACILITIES :

No Data

FIRE FIGHTING MEASURES**Suitable Extinguishing Media :**

water fog

CO2, dry chemical or foam

Precaution for fire fighters and special protective equipment :

Vapors are flammable, may form explosive mixtures with air.

While in use, keep away from heat, sparks or naked flames.

Heating may cause explosion.

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.**HANDLING AND STORAGE**

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

Keep tightly capped.

EXPOSURE CONTROLS / PERSONAL PROTECTION**EXPOSURE CONTROL PARAMETERS :**

OSHA PEL (1994)	[Ethanol]	TWA	1,000 ppm (1,900mg/m ³)
ACGIH TLV (2003)	[Ethanol]	TWA	1,000 ppm
	[2-Propanol,1-methoxy-]	TWA	100 ppm
EN LIMIT (2000/39/EN)	[2-Propanol,1-methoxy-]	eight hours	100ppm (375mg/m ³) (skin)
		short-term	150ppm (568mg/m ³) (skin)

PERSONAL PROTECTION

Not required.

Avoid skin and eye contact.

Do not smoke.

Remove any naked lights or strong heat sources.

ENGINEERING CONTROLS :

Not required.

Maintain concentration below recommended exposure limit.

Use with local exhaust ventilation.

Vapor heavier than air.

Keep stock in a well ventilated area.

Keep tightly capped.

PHYSICAL AND CHEMICAL PROPERTIES (INK)

Appearance

Physical state	Liquid
Odor	minor solvent odor
Boiling Point / Boiling Range	No data available
Flash Point	19 °C
Explosive Properties	No data available
Relative Density (g/cm ³)	0.9~1.0 g/cm ³
Solubility [Water]	Insoluble

STABILITY AND REACTIVITY

Keep away from oxidizing agents, peroxides, acids, acid chlorides, acid anhydrides, alkali metals and ammonia.

TOXICOLOGICAL INFORMATION**ACUTE EFFECTS****SWALLOWED :**

Not applicable

EYE :

A moderate eye irritant.

May cause watering of eyes.

High concentrations of vapors will cause irritation.

SKIN :

Contact with skin may result in irritation.

Repeated or prolonged skin contact may lead to dermatitic effects.

Will have a degreasing action on the skin.

INHALED :

Toxic by inhalation.

The vapor is an irritant to the mucous membranes and respiratory tract.

Inhalation of vapor can result in headaches, dizziness and possible nausea.

Possible CNS effects.

CHRONIC EFFECTS :

Possible liver and kidney disorders.

Repeated or prolonged skin contact can cause chronic dermatitis.

Treat symptomatically.

ACUTE TOXICITY (RTECS ; 2004.11):

[Ethanol]

Oral	LD ₅₀ (rat)	7,060 mg/kg
Inhalation	LC ₅₀ (rat)	20,000 ppm/10H
Skin	LD ₅₀ (rabbit)	6,300 mg/kg

[2-Propanol,1-methoxy-]

Oral	LD ₅₀ (rat)	6,600 mg/kg
Inhalation	LC ₅₀ (rat)	10,000 ppm/5H
Skin	LD ₅₀ (rabbit)	13 mg/kg

[Propanoic acid,1-hydroxy-,ethyl ester]		
Oral	LD ₅₀ (rat)	>2,000 mg/kg
Inhalation	LC ₅₀ (rat)	>500 mg/m ³
Skin	LD ₅₀ (rabbit)	>500 mg/kg

ECOLOGICAL INFORMATION

ECOTOXICITY	No data available
BIOACCUMULATIVE POTENTIAL	No data available
OTHER ADVERSE EFFECTS	No data available

DISPOSAL CONSIDERATIONS

Disposal as usual industrial waste goods ,follow all regulations in your country.
Do not dump this product into sewers , on the ground or into any body of water.

TRANSPORT INFORMATION

Ship Name (CSN):

UN CLASS	3
UN Packing Group (PG)	II
UN NUMBER	1210
Proper Shipping Name	Printing ink, flammable

REGULATORY INFORMATION

HAZARD CLASSIFICATION of INGREDIENTS

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OTHER INFORMATION

REFERENCES :

N.IRVING Sax and RICHARD J. LEWIS,SR, "Dangerous Properties of industrial Materials Seventh Edition", Van Nostrand Reinhold (1989).
 REGISTRY OF TOXIC EFFECTS IF CHEMICAL SUBSTANCES 1985-86 Edition

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

IMPORTANT ADVICE :

This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace.

Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including its use in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made ,the user should contact the supplier .Our responsibility for products sold is subject to our standard terms and conditions .