

MATERIAL SAFETY DATA SHEET

[MSDS NO. AA5004B-9401]

PRODUCT :
 Artline Calligraphy Pen
 EK-241,EK-242,EK-243,EK-244
 (Black)(Blue)(Red)(Sepia)

Issue Date Jan.5,2007

IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name : Artline Calligraphy pen
Other Names : -
Recommended Use : Water based marker

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

SUPPLIER NAME : Shachihata Inc.
ADDRESS : 4-69,Amazuka-chou,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

Not classified as Hazardous according to the criteria of Worksafe Australia

COMPOSITION / INFORMATION ON INGREDIENTS (INK)

<MIXTURE>

Chemical or Common Name(s)	wt. %	Black	Other colors	CAS(TSCA) Number
1,2-Ethanediol	10~20	10~20	1~10	107-21-1
Ethanol,2-(2-butoxyethoxy)-	<2	<2	<2	112-34-5
1,2,3-Propanetriol	-	-	10~20	56-81-5
Carbon	1~10	1~10	-	1333-86-4
Water	50~60	50~60	50~60	7732-18-5

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)			
	[1,2,3-Propanetriol]	TWA	15 mg/m ³
	[Carbon black]	TWA	3.5 mg/m ³
ACGIH TLV (2003)			
	[1,2-Ethanediol]	CL	100 mg/m ³ (H)
	[1,2,3-Propanetriol]	TWA	10 mg/m ³
	[Carbon black]	TWA	3.5 mg/m ³
EN LIMIT (2000/39/EN)			
	[1,2-Ethanediol]		
	eight hours	20 ppm (52 mg/ m ³) (skin)	
	short-term	40 ppm (104 mg/ 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	None
pH	8~10
Boiling Point / Boiling Range	No data available
Flash Point	Not applicable
Explosive Properties	No data available
Relative Density (g/cm ³)	1.0~1.1 g/cm ³
Solubility [Water]	soluble

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):

[1,2-Ethanediol]			
Oral	LD ₅₀ (rat)	4,700	mg/kg
Inhalation	LC ₅₀ (rat)	>200	mg/m ³ /4H
Skin	LD ₅₀ (rabbit)	9,530	uL/kg
[Ethanol,2-(2-butoxyethoxy)-]			
Oral	LD ₅₀ (rat)	5,660	mg/kg
Skin	LD ₅₀ (rabbit)	2,700	mg/kg
[1,2,3-Propanetriol]			
Oral	LD ₅₀ (rat)	12,600	mg/kg
Inhalation	LC ₅₀ (rat)	>570	mg/m ³ /1H
Skin	LD ₅₀ (rabbit)	>10	mg/kg
[Carbon black]			
Oral	LD ₅₀ (rat)	>15,400	mg/kg
Skin	LD ₅₀ (rabbit)	>3	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	None
UN Packing Group (PG)	None
UN NUMBER	None
Proper Shipping Name	None

REGULATORY INFORMATION**HAZARD CLASSIFICATION of INGREDIENTS**

[1,2-Ethenediol]	[Xn]	R:22	S: (2)
[Ethanol,2-(2-butoxyethoxy)-]	[Xi]	R:36	S: (2-)24-26

Symbol :	Xj	(Irritant)
	Xn	(Harmful)
Risk Phrase :	22	(Harmful if allowed)
	36	(Irritating to eyes)
Safety Phrase :	2	(Keep out of the reach of children.)
	24	(Avoid contact with skin.)
	26	(In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.)

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.

MATERIAL SAFETY DATA SHEET

[MSDS NO.AA7035B-000]

PRODUCT: Artline Calligraphy Pen EK-993
(Gold , Silver)

Issue Date Jan.5,2007

Not classified as Hazardous according to criteria of Worksafe Australia

COMPANY DETAILS

JAPAN:

SUPPLIER NAME : 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:

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ABN : 51 084 958 556
ADDRESS : Coronation Avenue,Kings Park,
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TELEPHONE NO : 02-9674-0900
FAX NO : 02-9674-0910
EMERGENCY PHONE NUMBER : 02-9674-0900 or Mobile:0419-206-163

IDENTIFICATION

Product Name : Artline PAINT MARKER
Ship Name (CSN) : non hazardous
Other Names : -
UN No. : n/a **D.G.CLASS :** n/a **PACK. GRP :** n/a
HAZCHEM : n/a **SUB. RISK :** No Data **SUSDP :** Not Scheduled
PRODUCT USE : Marking pen

PHYSICAL DATA (INK)

APPEARANCE AND ODOUR Liquid, solvent odour.
BOILING POINT No data available
MELTING POINT n/a
VAPOUR PRESSURE n/a
VOLATILE (wt.%) 40~60
DENSITY(g/cm³) 0.9 (Silver) , 1.2 (Gold)
FLASH POINT -2~-1 °C(closed cup)
FLAMMABILITY LIMITS no data
REL. VAPOUR DENSITY no data

INGREDIENTS (INK)

CHEMICAL OR COMMON NAME(S)	CAS NO.	INGREDIENTS(wt.%)
Cyclohexane,methyl-	108-97-2	30~50
Hydrocarbon solvent	—	1~10
Synthetic resin	—	25~35
Pigment	—	15~40
		100

HEALTH HAZARD INFORMATION

HEALTH EFFECTS

ACUTE EFFECTS

SWALLOWED :

No data available.

EYE :

No data available.

SKIN :

No data available.

INHALED :

No data available.

CHRONIC EFFECTS

No data available.

FIRST AID

SWALLOWED :

Seek medical advice immediately.

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

ADVICE TO DOCTOR

Treat symptomatically.

ACUTE TOXICITY (RTECS):

(Cyclohexane,methyl-)

Oral	LD ₅₀ (mouse)	2,250mg/Kg
Inhalation	LC ₅₀ (mouse)	41,500mg/m ³ /2H

PRECAUTIONS FOR USE

EXPOSURE CONTROL PARAMETERS :

[Cyclohexane,methyl-]

ACGIH TLV (1990-91) TWA 400ppm(1610mg/m³)

OSHA PEL(1993) 500ppm(2000mg/m³)

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.

PERSONAL PROTECTION

Not required.
Avoid skin and eye contact.
Do not smoke.
Remove any naked lights or strong heat sources.

FLAMMABILITY

Vapors are flammable, may form explosive mixtures with air.
While in use, keep away from heat, sparks or naked flames.
Heating may cause explosion.

ENVIRONMENT :

Not applicable

OTHER PRECAUTIONS :

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

SAFE HANDLING INFORMATION

STORAGE AND TRANSPORT

Store in a cool, dry, well-ventilated location.
Keep tightly capped.

SPILLS AND DISPOSAL :

Disposal as usual industrial waste goods, follow all regulations in your country.

FIRE /EXPLOSION HAZARD

Extinguish fire with the following :
Use water fog.
Use CO₂, dry chemical or foam.

OTHER SAFE HANDLING INFORMATION

OTHER INFORMATION

Risk Statement: n/a
Safety statement: S23 Do not breathe fumes

REFERENCES :

N.IRVING Sax and RICHARD J. LEWIS, SR, "Dangerous Properties of industrial Materials Seventh Edition", Van Nostrand Reinhold (1989).
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