

# MATERIAL SAFETY DATA SHEET

[MSDS NO.AA7001B-9401]

**PRODUCT:**  
 Artline WRITING PEN  
 EK-200,EK-210,EK-220  
 (All colors)

**Issue Date** 6 May,2011

## COMPANY DETAILS

### JAPAN:

**MANUFACTURER/SUPPLIER :** Shachihata Inc.  
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**TELEPHONE NUMBER :** ++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 NUMBER:** 02-9674-0900  
**FAX NUMBER :** 02-9674-0910  
**EMERGENCY TELEPHONE :** 02-9674-0900 or Mobile:0419-206-163

## HAZARDS IDENTIFICATION

Classified as Hazardous according to criteria of Worksafe Australia

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

Symbol :	Xi	( Irritant)
	Xn	( Harmful)
Risk Phrase :	22	( Harmful if swallowed.)
	36	( Irritating to eyes.)
Safety Advice :	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.)

## IDENTIFICATION

**Product Name:** Artline WRITING PEN  
**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:** writing pen

## PHYSICAL DATA (INK)

**APPEARANCE AND ODOUR** Liquid, None.  
**BOILING POINT** 100°C  
**MELTING POINT** n/a  
**VAPOUR PRESSURE** n/a  
**VOLATILE (wt.%)** 80~90  
**DENSITY(g/cm3)** 1.0~1.1  
**FLASH POINT** Not applicable(closed cup)  
**FLAMMABILITY LIMITS** no data

PRODUCT: Artline WRITING PEN 200,210,220

REL. VAPOUR DENSITY no data

SOLUBILITY IN WATER soluble

**INGREDIENTS (INK)**

Chemical or Common Name(s)	wt. %			CAS(TSCA) Number	EINECS Number
		Black	Others		
1,2-Ethanediol		1~10	10~20	107-21-1	203-473-3
Ethanol,2-(2-butoxyethoxy)-		1~ 5	1~ 5	112-34-5	203-961-6

**HEALTH HAZARD INFORMATION**

**HEALTH EFFECTS**

**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.

**FIRST AID**

**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 :**

Not applicable

**FIRST AID FACILITIES :**

No Data

**ADVICE TO DOCTOR**

Treat symptomatically.

**ACUTE TOXICITY (RTECS ; 2003.02):**

[1,2-Ethanediol ]			
Oral	LD <sub>50</sub> (rat)		4,700 mg/kg
[Ethanol,2-(2-butoxyethoxy)-]			
Oral	LD <sub>50</sub> (rat)		4,500 mg/kg

**PRECAUTIONS FOR USE**

**EXPOSURE CONTROL PARAMETERS :**

OSHA PEL (2002)	Not established	
ACGIH TLV (2002)	[1,2-Ethanedio]l	CL 100mg/m3(H)
EN LIMIT (2000/39/EN)	Not established	

**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**

**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/EXPLOSIUON HAZARD**

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

**OTHER SAFE HANDLING INFORMATION**

**OTHER INFORMATION**

This product is classified as follows and labeled accordingla,

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

**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 .