

# MATERIAL SAFETY DATA SHEET

**PRODUCT :** Artline Writing Pens 200 , 210 , 220  
 EK-200N , EK-210N , EK-220N  
 (All colours)

**Issue Date** 16 May, 2016

## IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name : Artline Writing Pens 200 , 210 , 220  
 EK-200N , EK-210N , EK-220N

Recommended use : Writing ink

Supplier name/address/telephone no./Emergency phone number

[JAPAN]

MANUFACTURER/SUPPLIER : 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]

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 : 0423-782-595

## HAZARDS IDENTIFICATION

Classified as Hazardous according to criteria of Worksafe Australia

Substance name : [Ethane-1,2-diol]  
 Classification : Xn; R22  
 R-Phrase : R22 Harmful if swallowed.  
 S-Phrase : S2 Keep out of the reach of children.  
 Symbols and indications of danger specific Xn : Harmful

Substance name : [2,2'-oxydiethanol]  
 Classification : Xn; R22  
 R-Phrase : R22 Harmful if swallowed.  
 S-Phrase : S2 Keep out of the reach of children.  
 S46 If swallowed, seek medical advice immediately and show this container or label.

Symbols and indications of danger specific Xn : Harmful

## COMPOSITION / INFORMATION ON INGREDIENTS (INK)

Chemical Name / Generic name	Composition weight %		CAS Registry No.
	Black	Others	
Water	60 ~ 70	60 ~ 70	7732-18-5
Ethane-1,2-diol (Ethylene Glycol)	5 ~ 15	10 ~ 20	107-21-1
2,2'-oxydiethanol	5 ~ 15	5 ~ 15	111-46-6

## FIRST AID MEASURES

- IF INHALED : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Consult a doctor if symptoms persist.
- IF ON SKIN : Remove/Take off immediately all contaminated clothing.Wash with soap and water. If skin irritation/rash occurs or feel unwell, consult a doctor for medical advice.
- IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.Continue rinsing.If eye irritation persists, get medical advice/attention.
- IF SWALLOWED : After rinse mouth immediately, give about 250 ml of water or milk and thin in the stomach, and do not vomit forcibly.Moreover, do not give anything from the mouth to the patient when not conscious.Receive the doctor's treatment (stomach pump) promptly.

## FIRE FIGHTING MEASURES

### Extinguishing media

Suitable extinguishing media : Dry chemical powder, foam or carbon dioxide

Unsuitable extinguishing media : Water jet

### Special hazards arising from the substance or mixture

For initial stage extinction, carbon dioxide or dry chemical powder.

When a fire extends, fire is extinguished by a large amount of water spray.

Do not discharge extinguishing waters into the aquatic environment.

### Advice for firefighters

In the extinction work, an appropriate protective equipment (gloves, glasses, and mask) has to be worn.

Because during a fire, hazardous gases may be generated, fire-fighters have to wear self-contained breathing apparatus and other protective equipment.

## ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe area. Shut off all sources of ignition.

No Flares, smoking or flame in area. Put on protective equipment. Ensure adequate ventilation.

### Environmental precautions

Do not throw the leakage thing directly into environment

### Methods and material for containment and cleaning up

In case of a small spill, remove by absorbing with absorbents (sawdust, soil, sand, waste cloth,etc.), and then wipe off the waste well with waste cloth, and rag.

In case of large spills, prevent leakage by enclosing with nonflammables (earth and sand, etc.) and collect into empty container by scoop, suction equipment or the like.

## HANDLING AND STORAGE

### Precautions for safe handling

Advice on safe handling : Use with adequate ventilation.

Avoid contact with skin, eyes and clothing.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not eat, drink or smoke when using this product.

### Conditions for safe storage, including any incompatibilities

Requirements for storage : Keep containers tightly closed and store in a cool and dry place.

areas and containers Keep away from heat and flame,ignition source and sunlight.

Keep out of the reach of children.

## EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control parameters

#### Australian exposure standards(2013)

Ethane-1,2-diol	TWA	20ppm
2,2'-oxydiethanol	TWA	23ppm

#### EH40/2005 Workplace exposure limits

Ethane-1,2-diol	TWA	20ppm
2,2'-oxydiethanol	TWA	23ppm

#### ACGIH (2015)

Ethane-1,2-diol	STEL ceiling	100mg/m <sup>3</sup> (H)
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### Exposure controls

#### Personal protective equipment

- Respiratory Protection : Use with local exhaust ventilation, when in long use.  
 Avoid breathing vapours. Wear mask to prevent organic gas, if necessary.
- Hand Protection : Avoid contact with hands. Wear safety gloves, if necessary.
- Eye Protection : Avoid contact with eyes. Wear safety glasses, if necessary.
- Skin Protection : Avoid skin contact. Wear personal protection apron,boots, if necessary.

#### Environmental exposure controls

- General advice : Prevent product from entering drains.  
 Prevent further leakage or spillage if safe to do so.  
 If the product contaminates rivers and lakes or drains inform respective authorities.

## PHYSICAL AND CHEMICAL PROPERTIES (INK)

Appearance	: liquid
Odour	: none
pH	: 7 ~ 9
Boiling point	: No data available
Flash point	: Not applicable
Relative Density (at 25°C)	: 1.0 ~ 1.2 ( g/cm <sup>3</sup> )
Solubility in Water	: soluble

## STABILITY AND REACTIVITY

### Reactivity

No dangerous reaction known under conditions of normal use.

### Chemical stability

Thermally stable at typical use temperatures.

### Possibility of hazardous reactions

No data available

### Conditions to Avoid

High temperature, Direct sunlight, Fire

### Incompatible Materials

No data available

### Hazardous decomposition products

CO, CO<sub>2</sub>

## TOXICOLOGICAL INFORMATION

### Information on toxicological effects

Acute toxicity : LD/LC50 values that are relevant for classification

[Ethane-1,2-diol]

Oral-rat LD50 >300 - <=2,000mg/kg

Dermal-rabbit LD50 >5,000 mg/kg

[2,2'-oxydiethanol]

Oral-rat LD50 >300 - <=2,000 mg/kg

Dermal-rabbit LD50 >5,000mg/kg

Carcinogenicity : Not listed by IARC, EPA, EU, NTP.

## ECOLOGICAL INFORMATION

Ecotoxicity : No data available

Persistence and degradability : No data available

Bioaccumulative potential : No data available

Mobility in soil : No data available

Other adverse effects : No data available

## DISPOSAL CONSIDERATIONS

### Disposal Methods

Disposal must be made according to official regulations.

Comply with all Federal, State, and Local regulations regarding disposal.

Do not allow product to reach ground, any water course or sewage system.

## TRANSPORT INFORMATION

UN number ADG, IMDG, IATA : None

UN proper shipping name ADG, IMDG, IATA : None

Transport hazard class(es) ADG, IMDG, IATA : None

Packing group ADG, IMDG, IATA : None

Environmental hazards Marine pollutant : None

Special precautions for user EMS Number : None

HAZCHEM Code : None

## REGULATORY INFORMATION

This product does not contain any hazardous chemical that has been determined by Montreal Protocol (Ozone depleting substances), The Stockholm Convention (Persistent Organic Pollutants), and The Rotterdam Convention (Prior Informed Consent).

## OTHER INFORMATION

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

This data sheet may not be enough when evaluating danger or hazard. The above information, which is created from currently available documents, information and data, may be revised when new findings announced. This document has been written on the assumption that when dealing with a large amount of ink on the business case and emergency. When handling as a normal product, please refer to the notes that is described in the produce or packaging. The information contained herein is not intended to provide any kind of warranty other than information, there is no guarantee for the accuracy of the content.