# MATERIAL SAFETY DATA SHEET

[MSDS NO. AA5003B-9401]

PRODUCT :

Artline DRAWING SYSTEM

EK-231,EK-232,EK-233,EK-234,EK-235,EK-238,EK-2305

(Black)(Blue)(Red)(Green)

Issue Date 6 May,2011

## IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Artline DRAWING SYSTEM

Other Names:

Recommended Use: Writing pen

# 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 ILimited

**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

[1,2-Ethanediol] [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 awallowed)

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.)

## COMPOSITION / INFORMATION ON INGREDIENTS (INK)

## <MIXTURE>

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

[Carbon black] TWA 3.5 mg/m<sup>3</sup>

ACGIH TLV (2003)

[1,2-Ethanediol] CL 100 mg/m³ (H) [1,2,3-Propanetriol] TWA 10 mg/m³ TWA 2.5 mg/m³

[Carbon black] TWA 3.5 mg/m<sup>3</sup>

EN LIMIT (2000/39/EN)

[1,2-Ethanediol]

eight hours 20 ppm (52 mg/ m³) (skin) short-term 40 ppm (104 mg/ m³) (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 рΗ 8~10

Boiling Point / Boiling Range No data available Flash Point Not applicable Explosive Properties Relative Density (g/cm³) No data available 1.0~1.1 g/cm<sup>3</sup>

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
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	•			
	Oral	LD <sub>50</sub> (rat)	4,700	mg/kg
	Inhalation	LC <sub>50</sub> (rat)	>200	mg/m³/4H
	Skin	LD <sub>50</sub> (rabbit)	9,530	uL/kg
[Ethanol,2-	(2-butoxyetho	oxy)-]		_
	Oral	LD <sub>50</sub> (rat)	5,660	mg/kg
	Skin	LD <sub>50</sub> (rabbit)	2,700	mg/kg
[1,2,3-Prop	anetriol]			

Oral  $LD_{50}$  (rat) 12,600 mg/kg Inhalation  $LC_{50}$  (rat)  $>570 \text{ mg/m}^3/1\text{H}$  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

BIOACCUMULATIVE POTENTIAL

OTHER ADVERSE EFFECTS

No data available
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

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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.