

[ISO11014:2009][Shachihata Inc.] [EK-231\_black\_d] 1/4



## Safety Data Sheet (MSDS)

22128-XXXX

**Artline**  
**Xstamper**

 Issued Date : May 16, 2008  
 Revised Date : April 22, 2013

### SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name** : Artline DRAWING SYSTEM Color : (Black)  
 EK-2305 , EK-231 , EK-232 , EK-233 , EK-234 , EK-235 , EK-236 , EK-237 , EK-238  
**Company Name** : Shachihata Inc.  
**Address** : 4-69, Amazuka-cho, Nishi-ku, Nagoya City, 451-0021, Japan  
**Telephone** : + 81-52-521-3600  
**Fax** : + 81-52-521-3899  
**Emergency Call** : + 81-52-521-3600 (Shachihata Inc. [Japan])  
**Recommended use** : Writing ink



### SECTION 2 HAZARDS IDENTIFICATION

**GHS Classification**  
**Physical Hazards** : Not classified  
**Health Hazards** : Not classified  
**Environmental Hazards** : Classification not possible

#### LABEL ELEMENTS

**Symbols** : none  
**Signal word** : none  
**Hazard statement** : none

#### Precautionary statement

**【Prevention】**  
 Wash hands thoroughly after handling. (P264)  
**【Response】**  
**IF INHALED** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. (P304+P340)  
**IF IN EYES** : Rinse cautiously with water for several minutes. (P305+P351+P338)  
 Remove contact lenses, if present and easy to do. Continue rinsing.  
**If eye irritation persists** : Get medical advice/attention. (P337+P313)  
**IF SWALLOWED** : Get medical advice/attention if you feel unwell. Rinse mouth. (P301+P314+P330)  
**【Storage】**  
 Store in a well-ventilated place. Keep container tightly closed. (P403+P233)  
**【Disposal】**  
 Dispose of contents/container to waste in accordance with (P501)  
 local/regional/ national/international regulation (to be specified).



### SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture : Mixture

#### Ingredients

Chemical Name / Generic name	Composition weight %	CAS Registry No.	Hazard Class (category)	Hazard statement
Water	50~60	7732-18-5	none	none
ethane-1,2-diol	10~20	107-21-1	Acute Tox. (oral) 4	H302
2,2'-oxydiethanol	1~10	111-46-6	Acute Tox. (oral) 4	H302
Carbon black	5~15	1333-86-3	none	none
Synthetic resin	1~10	Confidential	none	none
Others	5~15	Confidential	none	none
<b>total</b>	<b>100</b>			

(ISO11014:2009)[Shachihata Inc.] [EK-231\_black\_d] 2/4

**SECTION 4 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.

**SECTION 5 FIRE-FIGHTING MEASURES**

- SUITABLE EXTINGUISHING MEDIA** : Dry chemical powder, foam or carbon dioxide
- UNSUITABLE EXTINGUISHING MEDIA** : Water jet

**SPECIFIC EXTINCTION METHOD**

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.

**SPECIAL PROTECTIVE FOR FIRE-FIGHTERS**

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.

**SECTION 6 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 MATERIALS FOR CONTAINMENT AND CLEANING UP**

In case of a small spill, absorb with dry sand, soil, sawdust, cloth, etc., then place in a chemical waste containers.  
In case of large spills, dike and prevent overflow, cover spills with foam, then place in a chemical container using non-sparking tools.

**SECONDARY ACCIDENT PREVENTION MEASURE**

All ignition sources should be quickly removed. (No smoking in vicinity, prohibit sparks or fire sources)

**SECTION 7 HANDLING AND STORAGE**

- 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.
- Storage** : Keep containers tightly closed and store in a cool and dry place.  
Keep away from heat and flame, ignition source and sunlight.  
Keep out of the reach of children.

**SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION****OCCUPATIONAL EXPOSURE LIMIT**

ACGIH (2012)

ethane-1,2-diol

STEL ceiling

100mg/m<sup>3</sup>(H)

Carbon black

TWA

3.5 mg/m<sup>3</sup>

OSHA PEL

Not listed

DIRECTIVE 2000/39/EC

ethane-1,2-diol

TWA

20ppm

STEL

40ppm

Japan Society for Occupational Health (2011)

Carbon black

Dust Class 2

OEL (Total dust)

1 mg/m<sup>3</sup>

Item Numbers: 22128-1039, 22128-1069, 22128-1099, 22128-1109, 22128-1119, 22128-1129, 22128-1139, 22128-1149, 22128-1159, 22128-1169, 22128-1179, 22128-1189, 22128-1199, 22128-1209, 22128-1219, 22128-1229, 22128-1239, 22128-1249, 22128-1259, 22128-1269, 22128-1279, 22128-1289, 22128-1299, 22128-1309, 22128-1319, 22128-1329, 22128-1339, 22128-1349, 22128-1359, 22128-1369, 22128-1379, 22128-1389, 22128-1399, 22128-1409, 22128-1419, 22128-1429, 22128-1439, 22128-1449, 22128-1459, 22128-1469, 22128-1479, 22128-1489, 22128-1499, 22128-1509, 22128-1519, 22128-1529, 22128-1539, 22128-1549, 22128-1559, 22128-1569, 22128-1579, 22128-1589, 22128-1599, 22128-1609, 22128-1619, 22128-1629, 22128-1639, 22128-1649, 22128-1659, 22128-1669, 22128-1679, 22128-1689, 22128-1699, 22128-1709, 22128-1719, 22128-1729, 22128-1739, 22128-1749, 22128-1759, 22128-1769, 22128-1779, 22128-1789, 22128-1799, 22128-1809, 22128-1819, 22128-1829, 22128-1839, 22128-1849, 22128-1859, 22128-1869, 22128-1879, 22128-1889, 22128-1899, 22128-1909, 22128-1919, 22128-1929, 22128-1939, 22128-1949, 22128-1959, 22128-1969, 22128-1979, 22128-1989, 22128-1999, 22128-2009, 22128-1019

[ISO11014:2009][Shachihata Inc.] [EK-231\_black\_d] 3/4

**PERSONAL PROTECTION**

- : Respiratory Protection  
Not required, but wear mask to prevent organic gas, if necessary.
- : Hand Protection  
Not required, but wear safety gloves, if necessary.
- : Eye Protection  
Not required, but wear safety glasses, if necessary.
- : Skin Protection  
Not required, but wear personal protection apron, boots, if necessary.

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	: black liquid
Odour	: odorless
pH	: 8 - 11
Boiling point	: No data available
Flash point	: Not applicable (closed cup)
Relative Density (at 25°C)	: 1.0 - 1.3 (g/cm <sup>3</sup> )
Solubility in Water	: soluble

**SECTION 10 STABILITY AND REACTIVITY**

Stability	: Stable under normal handling.
Conditions to Avoid	: High temperature, Direct sunlight, Fire
Incompatible Materials	: Strong oxidising agents
Hazardous Decomposition Products	: CO, CO <sub>2</sub>

**SECTION 11 TOXICOLOGICAL INFORMATION**

Acute toxicity	: LD/LC50 values that are relevant for classification [ethane-1,2-diol] and [2,2'-oxydiethanol]
	Oral-rat LD50 >300 · <=2,000mg/kg
	Dermal-rabbit LD50 >5,000 mg/kg
Carcinogenicity	: Carbon black has been classified by the IARC as Group 2B. Other materials : Not listed by IARC, EPA, EU, NTP.

Regarding the carcinogenicity of carbon black, the International Agency for Research on Cancer (IARC) has classified as a group 2B. However, as the ink product we could not classify the carcinogenicity of GHS from that there is no sufficient data.

**SECTION 12 ECOLOGICAL INFORMATION**

Hazardous to the aquatic environment (acute)	: Classification not possible
Hazardous to the aquatic environment (chronic)	: Classification not possible
Hazardous to the ozone layer	: Classification not possible

**SECTION 13 DISPOSAL CONSIDERATIONS**

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.

**SECTION 14 TRANSPORT INFORMATION**

UN number	(DOT, ADR, IMDG, IATA)	: none
UN proper shipping name	(DOT, ADR, IMDG, IATA)	: none
UN Classification		: none
Packing group	(DOT, ADR, IMDG, IATA)	: none
Marine pollutant (Y/N)		: N
EmS number		: none

[ISO11014:2009][Shachihata Inc.] [EK-231\_black\_d] 4/4

**SECTION 15 REGULATORY INFORMATION**

## &lt; EU Information &gt;

## Regulation (EC) No 1272/2008 (CLP)

Substance name : [ethane-1,2-diol]  
 Hazard Class & Category : Acute toxicity - Oral, Category 4  
 Symbols : GHS07  
 Signal word : Warning  
 Hazard statements : H302 Harmful if swallowed

Substance name : [2,2'-oxydiethanol]  
 Hazard Class & Category : Acute toxicity - Oral, Category 4  
 Symbols : GHS07  
 Signal word : Warning  
 Hazard statements : H302 Harmful if swallowed

## Directive 67/548/EEC or 1999/45/EC

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.  
 S16 If swallowed, seek medical advice immediately and show this container or label.

Symbols and indications of danger specific Xn : Harmful

## &lt; USA Information &gt;

OSHA STATUS : This product is not hazardous under 29 CFR 1910.1200.  
 TSCA STATUS : All components on TSCA INVENTORY.  
 TSCA Hazard Communication Program (40 CFR Part 721) (SNUR) : not Listed  
 CERCLA REPORTABLE QUANTITY (40 CFR 117.302) : RQ 5000 pounds [ethane-1,2-diol]  
 SARA TITLE III Section 313 (40 CFR 372) : Listed [ethane-1,2-diol]  
 California Proposition 65 (Chemicals known to cause cancer) : listed [carbon black]

Refer to any other federal , state , EU , national and local regulations.

**SECTION 16 OTHER INFORMATION**

**EU RoHS Directive(2002/95/EC) and ELV Directive(2000/53/EC)**  
 This product not contain lead,mercury, cadmium, hexavalent chromium,  
 polybromiated biphenyls (PBB) or polybrominated diphenylethers (PBDE).

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.