

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	Artline CLIX HIGHLIGHTER EK-63 (All colors) Artline REFILL CARTRIDGE FOR Artline CLIX EK-63R (All colors)
General Use	Water based marker
MSDS Number	EA5024A-0101

MANUFACTURER

Company Name	Shachihata Inc.
Address	4-69,Amazuka-cho,Nishi-ku,Nagoya City,451-0021,Japan
Telephone Number	++ 81 52 521 3600
Fax Number	++ 81 52 521 3899

2. COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Mixture	Mixture
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Hazardous Ingredients

No hazardous ingredients are known at this time.

(Main materials for Highlighter ink are composed of Pigment,Glycerin and additive,etc)

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

May cause allergic skin reaction.

POTENTIAL HEALTH EFFECT

No data available

POTENTIAL ENVIRONMENTAL EFFECTS

No data available

4. FIRST AID MEASURES

INHALATION	Move to well ventilated place. See medical advice immediately.
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EYE	Immediately flush with plenty of water. See medical advice immediately.
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SKIN	Wipe off with dry cloth and wash with mild soap. See medical advice immediately.
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INGESTION	See medical advice immediately.
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PROTECTION TO FIRST – AIDERS

No data available.

NOTE TO PHYSICIAN

Treatment may vary with condition of victim and specifics of incident.

MATERIAL SAFETY DATA SHEET**5. FIRE FIGHTING MEASURES****FLAMMABLE PROPERTIES**

Flash Point Not applicable

EXTINGUISHING MEDIA

Dry chemical powder, foam or carbon dioxide.

FIRE FIGHTING INSTRUCTIONS

Wear full fire-fighting turn-out gear and respiratory protection.

6. 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.**7. HANDLING AND STORAGE**HANDLING : Use only in the well-ventilated areas.
Avoid contact with skin or eyes , or clothing.
Avoid inhalation and ingestion.
Avoid high temp. and fire.
Wash thoroughly after handling.STORAGE : Store in a cool, dry, well-ventilated location.
Keep away from heat, sunlight.
Keep away from children.

MATERIAL SAFETY DATA SHEET**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****EXPOSURE LIMIT VALUES**

OSHA PEL (1994)	Not established
ACGIH TLV (2003)	Not established
EN LIMIT (2000/39/EN)	Not established

EXPOSURE CONTROLS**Occupational Exposure Controls****Engineering Controls**

Use exhaust ventilation to keep airborne concentration below exposure limits.

Personal Protection**Respiratory Protection**

Use with local exhaust ventilation, when in long use.

Hand Protection

Not required, but wear safety gloves, if necessary.

Eye Protection

Not required, but wear safety glasses, if necessary.

Skin Protection

To prevent ANY contact, wear impervious clothing such as gloves, apron, as appropriate.

Environmental Exposure Controls

Not established

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Physical state	Liquid
Odor	None
pH	5 ~ 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

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID No data available

STABILITY No data available

MATERIALS TO AVOID No data available

HAZARDOUS REACTIONS / DECOMPOSITION PRODUCTS

No data available

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11. TOXICOLOGICAL INFORMATION

Acute : Not determined
Chronic : Not determined
Signs and symptom of over exposure : Not determined
Medical conditions generally aggravated by exposure : Not determined.
Chemical listed as carcinogens : Unknown

12. ECOLOGICAL INFORMATION

ECOTOXICITY No data available
BIOACCUMULATIVE POTENTIAL No data available
OTHER ADVERSE EFFECTS No data available

13. DISPOSAL CONSIDERATIONS

Comply with all federal,state,EU,national and local regulations.
Do not dump this product into sewers , on the ground or into any body of water.

14. TRANSPORT INFORMATION

UN CLASS None
UN Packing Group (PG) None
UN NUMBER None
Proper Shipping Name None

15. REGULATORY INFORMATION

Refer to any other federal , state , EU , national and local regulations.
OSHA STATUS : This product is hazardous under 29 CFR 1910.1200.
TSCA STATUS : All components on TSCA INVENTORY.
CERCLA REPORTABLE QUANTITY (40 CFR 117,302) :
Not applicable
SARA TITLE : Not applicable

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

16. OTHER INFORMATION

This information is furnished without warranty,express or implied,
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It relates only to the specific material designated herein,and does not relate to
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