

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Revision Date : 17th Jan. 2017

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Name : Artline CLIX WHITEBOARD MARKER Colour : (Black)
 EK-573A,593A
 Artline Refill Cartridge for Artline CLIX WHITEBOARD MARKER
 EK-573AR

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use : Whiteboard marker ink

1.3. Details of the supplier of the safety data sheet

Supplier Company Name : Shachihata (Europe) Limited
 Address : Unit 8, Ashville Way, Sutton Weaver, Runcorn, Cheshire, WA7 3EZ, England
 Telephone : 0870 600 5 006
 Fax : 0871 200 5 006
 Contact (e-mail) : www.artline-xstamper.com



Manufacturer 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
 Contact (e-mail) : chem-analysis@ngy.shachihata.co.jp



1.4. Emergency telephone number

Telephone: 0870 600 5 006

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 2 H225 : Highly flammable liquid and vapour
 Serious eye damage, Category 1 H318 : Causes serious eye damage
 Specific target organ toxicity ; single exposure, Category 3 H336 : May cause drowsiness or dizziness
 (narcotic effects)

2.2. Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :   

Signal word : Danger

Hazard statement : Highly flammable liquid and vapour (H225)
 Causes serious eye damage (H318)
 May cause drowsiness or dizziness (H336)

Precautionary statement

【Prevention】

Keep out of reach of children. (P102)
 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. (P210)
 Take precautionary measures against static discharge. (P243)
 Avoid breathing vapours. (P261)
 Use only outdoors or in a well-ventilated area. (P271)

Wear eye protection.

(P280)

【Response】

In case of fire : Use dry chemical powder, foam or carbon dioxide to extinguish.

(P370+P378)

IF INHALED : Remove person to fresh air and keep 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 and attention.

(P337+P313)

Immediately call a POISON CENTER or physician.

(P310)

IF ON SKIN (or hair) : Take off immediately all contaminated clothing. Rinse skin with water.

(P303+P361+P353)

If skin irritation occurs : Get medical advice and attention.

(P332+P313)

【Storage】

Store in a well-ventilated place. Keep container tightly closed.

(P403+P233)

【Disposal】

Dispose of contents and container in accordance with local regulations.

(P501)

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Ingredients :

Chemical Name / Generic name	Composition weight %	CAS-No. EC-No. Index	Classification (REGULATION (EC) No 1272/2008)	
			Hazard Class	Hazard statement
Ethanol	20 ~ 30	64-17-5 200-578-6	Flam.Liq. 2	H225
Propan-2-ol	30 ~ 40	67-63-0 200-661-7	Flam.Liq. 2 Eye Irrit. 2 STOT.SE. 3	H225 H319 H336
Propan-1-ol	20 ~ 30	71-23-8 200-746-9	Flam.Liq. 2 Eye Dam. 1 STOT.SE. 3	H225 H318 H336
Carbon black	1 ~ 10	1333-86-4 215-609-9	none	none

SECTION 4: First aid measures

4.1. Description of 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: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Dry chemical powder, foam or carbon dioxide
 Unsuitable extinguishing media : Water jet

5.2. 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.

5.3. 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.

SECTION 6: Accidental release measures

6.1. 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.

6.2. Environmental precautions

Do not throw the leakage thing directly into environment

6.3. 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.

SECTION 7: Handling and storage

7.1. 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.

7.2. 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.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DIRECTIVE 2000/39/EC	Not listed	
DIRECTIVE 2006/15/EC	Not listed	
DIRECTIVE 2009/161/EU	Not listed	
EH40/2005 Workplace exposure limits		
Ethanol	TWA	1000ppm
Propan-2-ol	TWA	400ppm
Propan-1-ol	TWA	200ppm
Carbon black	TWA	3.5 mg/m ³
ACGIH (2015)		
Ethanol	STEL	1000ppm
Propan-2-ol	TWA	200ppm
Propan-1-ol	TWA	100ppm
Carbon black	TWA	3 mg/m ³

8.2. 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.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Appearance	: black liquid
Odour	: minor solvent odour
pH	: Not applicable
Boiling point	: No data available
Flash point	: 13 °C (closed cup)
Relative Density (at 25 °C)	: 0.8 ~ 0.85 (g/cm ³)
Solubility in Water	: Insoluble

SECTION 10: Stability and reactivity**10.1. Reactivity**

No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

Thermally stable at typical use temperatures.

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to Avoid

High temperature, Direct sunlight, Fire

10.5. Incompatible Materials

No data available

10.6. Hazardous decomposition products

CO, CO₂

SECTION 11: Toxicological information**11.1. Information on toxicological effects**

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

Oral-rat	LD50	>5,000 mg/kg
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Inhalation-rat	LC50	>20 mg/L/4h
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[Propan-2-ol]

Oral-rat	LD50	>5,000mg/kg
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Dermal-rabbit	LD50	>5,000mg/kg
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Inhalation-rat	LC50	>20 mg/L/4h
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[Propan-1-ol]

Oral-rat	LD50	>2,000mg/kg
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Dermal-rabbit	LD50	>2,000mg/kg
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Inhalation-rat	LC50	>20 mg/L/4h
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Serious eye damage : Category 1 Causes serious eye damage

Specific target organ toxicity : Category 3 May cause drowsiness or dizziness
(single exposure)

Carcinogenicity : Carbon black has been classified by the IARC as Group 2B.
Other materials ; Not contain any component that is considered
a human carcinogen by IARC, ACGIH, EPA, EU or NTP .

Regarding the carcinogenicity of carbon black, International Agency for Research on Cancer (IARC) has classified as a group 2B. However, ACGIH (American Conference of Governmental Industrial Hygienists), EPA (Environmental Protection Agency), EU (European Chemicals Agency), NTP (National Toxicology Program, USA) in the classification of suspected carcinogenic to humans has not been done. Therefore, as the ink product we could not classify the carcinogenicity of GHS from that there is no sufficient data.

SECTION 12: Ecological information

12.1. Toxicity : No data available

12.2. Persistence and degradability : No data available

12.3. Bioaccumulative potential : No data available

- 12.4. Mobility in soil : No data available
 12.5. Results of PBT and vPvB assessment : No data available
 12.6. Other adverse effects : No data available

SECTION 13: Disposal considerations

13.1. Waste treatment 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.

SECTION 14: Transport information

- 14.1. UN number DOT, ADR, IMDG, IATA : UN1210
 14.2. UN proper shipping name DOT, ADR, IMDG, IATA : PRINTING INK, flammable
 14.3. Transport hazard class(es) DOT, ADR, IMDG, IATA :
 · Class 3 (Flammable liquids)
 · Label 3
 14.4. Packing group DOT, ADR, IMDG, IATA : II
 14.5. Environmental hazards Marine pollutant : No
 14.6. Special precautions for user EMS Number : F-E,S-D
 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not applicable.



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Artline CLIX WHITEBOARD MARKER (EK-573A,EK-593A) is not a hazardous material by the special provision.
 Artline Refill Cartridge for Artline CLIX WHITEBOARD MARKER (EK-573AR) is not a hazardous material by the special provision.

Artline CLIX WHITEBOARD MARKER (EK-573A,EK-593A) (The amount of ink : less than 10ml)
 Artline Refill Cartridge for Artline CLIX WHITEBOARD MARKER (EK-573AR)

UN number : UN3175
 UN proper shipping name : Solids containing Flammable Liquid. n.o.s.
 IATA Special Provision A46
 IMDG Code Special Provision 216

According to IATA Special Provision A46, and IMDG Code Special Provision 216, small inner packagings consisting of sealed packets and articles containing less than 10 mL of a Class 3 liquid in Packing Group II or III absorbed onto a solid material are not subject to as a hazardous material/dangerous goods provided there is no free liquid in the packet or article.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

< EU Information >

Regulation (EC) No 1272/2008 (CLP)

Substance name : [Ethanol]
 Hazard Class & Category : Flammable liquids, Category 2
 Symbols : GHS02
 Signal word : Danger
 Hazard statements : H225 Highly flammable liquid and vapour

Substance name : [Propan-2-ol]
 Hazard Class & Category : Flammable liquids, Category 2
 Eye irritation, Category 2
 Specific target organ toxicity - single exposure, Category 3

Symbols : GHS02,GHS07
 Signal word : Danger
 Hazard statements : H225 Highly flammable liquid and vapour
 H319 Causes serious eye irritation

H336 May cause drowsiness or dizziness

Substance name : [Propan-1-ol]
Hazard Class & Category : Flammable liquids, Category 2
Serious eye damage, Category 1
Specific target organ toxicity - single exposure, Category 3
Symbols : GHS02,GHS07,GHS05
Signal word : Danger
Hazard statements : H225 Highly flammable liquid and vapour
H318 Causes serious eye damage
H336 May cause drowsiness or dizziness

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

SECTION 16: Other information



EU RoHS Directive(2011/65/EC)

ELV Directive(2000/53/EC)

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 are 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 are described in the product 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.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Revision Date : 17th Jan. 2017

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Name : Artline CLIX WHITEBOARD MARKER Colour : (Red)
 EK-573A,593A
 Artline Refill Cartridge for Artline CLIX WHITEBOARD MARKER
 EK-573AR



1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use : Whiteboard marker ink

1.3. Details of the supplier of the safety data sheet

Supplier Company Name : Shachihata (Europe) Limited
 Address : Unit 8, Ashville Way, Sutton Weaver, Runcorn, Cheshire, WA7 3EZ, England
 Telephone : 0870 600 5 006
 Fax : 0871 200 5 006
 Contact (e-mail) : www.artline-xstamper.com



Manufacturer 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
 Contact (e-mail) : chem-analysis@ngy.shachihata.co.jp



1.4. Emergency telephone number

Telephone: 0870 600 5 006

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 2	H225 : Highly flammable liquid and vapour
Serious eye damage, Category 1	H318 : Causes serious eye damage
Specific target organ toxicity ; single exposure, Category 3 (narcotic effects)	H336 : May cause drowsiness or dizziness

2.2. Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :   

Signal word : Danger

Hazard statement	: Highly flammable liquid and vapour	(H225)
	: Causes serious eye damage	(H318)
	: May cause drowsiness or dizziness	(H336)

Precautionary statement

【Prevention】	
Keep out of reach of children.	(P102)
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	(P210)
Take precautionary measures against static discharge.	(P243)
Avoid breathing vapours.	(P261)
Use only outdoors or in a well-ventilated area.	(P271)

Wear eye protection.

(P280)

【Response】

In case of fire : Use dry chemical powder, foam or carbon dioxide to extinguish.

(P370+P378)

IF INHALED : Remove person to fresh air and keep 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 and attention.

(P337+P313)

Immediately call a POISON CENTER or physician.

(P310)

IF ON SKIN (or hair) : Take off immediately all contaminated clothing. Rinse skin with water.

(P303+P361+P353)

If skin irritation occurs : Get medical advice and attention.

(P332+P313)

【Storage】

Store in a well-ventilated place. Keep container tightly closed.

(P403+P233)

【Disposal】

Dispose of contents and container in accordance with local regulations.

(P501)

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Ingredients :

Chemical Name / Generic name	Composition weight %	CAS-No. EC-No. Index	Classification (REGULATION (EC) No 1272/2008)	
			Hazard Class	Hazard statement
Ethanol	30 ~ 40	64-17-5 200-578-6	Flam.Liq. 2	H225
Propan-2-ol	35 ~ 45	67-63-0 200-661-7	Flam.Liq. 2 Eye Irrit. 2 STOT.SE. 3	H225 H319 H336
Propan-1-ol	5 ~ 15	71-23-8 200-746-9	Flam.Liq. 2 Eye Dam. 1 STOT.SE. 3	H225 H318 H336

SECTION 4: First aid measures

4.1. Description of 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: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Dry chemical powder, foam or carbon dioxide
- Unsuitable extinguishing media : Water jet

5.2. 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.

5.3. 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.

SECTION 6: Accidental release measures

6.1. 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.

6.2. Environmental precautions

Do not throw the leakage thing directly into environment

6.3. 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.

SECTION 7: Handling and storage

7.1. 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.

7.2. 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.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DIRECTIVE 2000/39/EC	Not listed	
DIRECTIVE 2006/15/EC	Not listed	
DIRECTIVE 2009/161/EU	Not listed	
EH40/2005 Workplace exposure limits		
Ethanol	TWA	1000ppm
Propan-2-ol	TWA	400ppm
Propan-1-ol	TWA	200ppm
ACGIH (2015)		
Ethanol	STEL	1000ppm
Propan-2-ol	TWA	200ppm
Propan-1-ol	TWA	100ppm

8.2. 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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance : red liquid
- Odour : minor solvent odour

pH	: Not applicable
Boiling point	: No data available
Flash point	: 13 °C (closed cup)
Relative Density (at 25 °C)	: 0.8 ~ 0.85 (g/cm ³)
Solubility in Water	: Insoluble

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

Thermally stable at typical use temperatures.

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to Avoid

High temperature, Direct sunlight, Fire

10.5. Incompatible Materials

No data available

10.6. Hazardous decomposition products

CO, CO₂

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

[Ethanol]

Oral-rat	LD50	>5,000 mg/kg
Inhalation-rat	LC50	>20 mg/L/4h

[Propan-2-ol]

Oral-rat	LD50	>5,000mg/kg
Dermal-rabbit	LD50	>5,000mg/kg
Inhalation-rat	LC50	>20 mg/L/4h

[Propan-1-ol]

Oral-rat	LD50	>2,000mg/kg
Dermal-rabbit	LD50	>2,000mg/kg
Inhalation-rat	LC50	>20 mg/L/4h

Serious eye damage : Category 1 Causes serious eye damage

Specific target organ toxicity (single exposure) : Category 3 May cause drowsiness or dizziness

Carcinogenicity : This product does not contain any component that is considered a human carcinogen by IARC, ACGIH, EPA, EU or NTP .

SECTION 12: Ecological information

12.1. Toxicity	: No data available
12.2. Persistence and degradability	: No data available
12.3. Bioaccumulative potential	: No data available
12.4. Mobility in soil	: No data available
12.5. Results of PBT and vPvB assessment	: No data available
12.6. Other adverse effects	: No data available

SECTION 13: Disposal considerations

13.1. Waste treatment 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.

SECTION 14: Transport information

14.1. UN number	DOT, ADR, IMDG, IATA : UN1210
14.2. UN proper shipping name	DOT, ADR, IMDG, IATA : PRINTING INK, flammable
14.3. Transport hazard class(es)	DOT, ADR, IMDG, IATA : · Class 3 (Flammable liquids) · Label 3
14.4. Packing group	DOT, ADR, IMDG, IATA : II
14.5. Environmental hazards	Marine pollutant : No
14.6. Special precautions for user	EMS Number : F-E,S-D
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	: Not applicable.



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Artline CLIX WHITEBOARD MARKER (EK-573A,EK-593A) is not a hazardous material by the special provision.
 Artline Refill Cartridge for Artline CLIX WHITEBOARD MARKER (EK-573AR) is not a hazardous material by the special provision.

Artline CLIX WHITEBOARD MARKER (EK-573A,EK-593A) (The amount of ink : less than 10ml)
 Artline Refill Cartridge for Artline CLIX WHITEBOARD MARKER (EK-573AR)

UN number : UN3175
 UN proper shipping name : Solids containing Flammable Liquid. n.o.s.
 IATA Special Provision A46
 IMDG Code Special Provision 216

According to IATA Special Provision A46, and IMDG Code Special Provision 216, small inner packagings consisting of sealed packets and articles containing less than 10 mL of a Class 3 liquid in Packing Group II or III absorbed onto a solid material are not subject to as a hazardous material/dangerous goods provided there is no free liquid in the packet or article.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

< EU Information >

Regulation (EC) No 1272/2008 (CLP)

Substance name : [Ethanol]
 Hazard Class & Category : Flammable liquids, Category 2
 Symbols : GHS02
 Signal word : Danger
 Hazard statements : H225 Highly flammable liquid and vapour

Substance name : [Propan-2-ol]
 Hazard Class & Category : Flammable liquids, Category 2
 Eye irritation, Category 2
 Specific target organ toxicity - single exposure, Category 3

Symbols : GHS02,GHS07
 Signal word : Danger
 Hazard statements : H225 Highly flammable liquid and vapour
 H319 Causes serious eye irritation
 H336 May cause drowsiness or dizziness

Substance name : [Propan-1-ol]
 Hazard Class & Category : Flammable liquids, Category 2
 Serious eye damage, Category 1
 Specific target organ toxicity - single exposure, Category 3

Symbols : GHS02,GHS07,GHS05
 Signal word : Danger
 Hazard statements : H225 Highly flammable liquid and vapour
 H318 Causes serious eye damage

H336 May cause drowsiness or dizziness

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

SECTION 16: Other information



EU RoHS Directive(2011/65/EC)

ELV Directive(2000/53/EC)

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.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Revision Date : 17th Jan. 2017

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Name : Artline CLIX WHITEBOARD MARKER Colour : (Blue)
 EK-573A,593A
 Artline Refill Cartridge for Artline CLIX WHITEBOARD MARKER
 EK-573AR



1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use : Whiteboard marker ink

1.3. Details of the supplier of the safety data sheet

Supplier Company Name : Shachihata (Europe) Limited
 Address : Unit 8, Ashville Way, Sutton Weaver, Runcorn, Cheshire, WA7 3EZ, England
 Telephone : 0870 600 5 006
 Fax : 0871 200 5 006
 Contact (e-mail) : www.artline-xstamper.com



Manufacturer 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
 Contact (e-mail) : chem-analysis@ngy.shachihata.co.jp



1.4. Emergency telephone number

Telephone: 0870 600 5 006

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 2 H225 : Highly flammable liquid and vapour
 Serious eye damage, Category 1 H318 : Causes serious eye damage
 Specific target organ toxicity ; single exposure, Category 3 H336 : May cause drowsiness or dizziness
 (narcotic effects)

2.2. Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statement : Highly flammable liquid and vapour (H225)
 Causes serious eye damage (H318)
 May cause drowsiness or dizziness (H336)

Precautionary statement

【Prevention】

Keep out of reach of children. (P102)

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. (P210)

Take precautionary measures against static discharge. (P243)

Avoid breathing vapours. (P261)

Use only outdoors or in a well-ventilated area. (P271)

Wear eye protection.

(P280)

【Response】

In case of fire : Use dry chemical powder, foam or carbon dioxide to extinguish.

(P370+P378)

IF INHALED : Remove person to fresh air and keep 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 and attention.

(P337+P313)

Immediately call a POISON CENTER or physician.

(P310)

IF ON SKIN (or hair) : Take off immediately all contaminated clothing. Rinse skin with water.

(P303+P361+P353)

If skin irritation occurs : Get medical advice and attention.

(P332+P313)

【Storage】

Store in a well-ventilated place. Keep container tightly closed.

(P403+P233)

【Disposal】

Dispose of contents and container in accordance with local regulations.

(P501)

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Ingredients :

Chemical Name / Generic name	Composition weight %	CAS-No. EC-No. Index	Classification (REGULATION (EC) No 1272/2008)	
			Hazard Class	Hazard statement
Ethanol	30 ~ 40	64-17-5 200-578-6	Flam.Liq. 2	H225
Propan-2-ol	35 ~ 45	67-63-0 200-661-7	Flam.Liq. 2 Eye Irrit. 2 STOT.SE. 3	H225 H319 H336
Propan-1-ol	5 ~ 15	71-23-8 200-746-9	Flam.Liq. 2 Eye Dam. 1 STOT.SE. 3	H225 H318 H336

SECTION 4: First aid measures

4.1. Description of 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: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Dry chemical powder, foam or carbon dioxide
- Unsuitable extinguishing media : Water jet

5.2. 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.

5.3. 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.

SECTION 6: Accidental release measures

6.1. 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.

6.2. Environmental precautions

Do not throw the leakage thing directly into environment

6.3. 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.

SECTION 7: Handling and storage

7.1. 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.

7.2. 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.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DIRECTIVE 2000/39/EC	Not listed	
DIRECTIVE 2006/15/EC	Not listed	
DIRECTIVE 2009/161/EU	Not listed	
EH40/2005 Workplace exposure limits		
Ethanol	TWA	1000ppm
Propan-2-ol	TWA	400ppm
Propan-1-ol	TWA	200ppm
ACGIH (2015)		
Ethanol	STEL	1000ppm
Propan-2-ol	TWA	200ppm
Propan-1-ol	TWA	100ppm

8.2. 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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : blue liquid
 Odour : minor solvent odour

pH	: Not applicable
Boiling point	: No data available
Flash point	: 13 °C (closed cup)
Relative Density (at 25 °C)	: 0.8 ~ 0.85 (g/cm ³)
Solubility in Water	: Insoluble

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

Thermally stable at typical use temperatures.

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to Avoid

High temperature, Direct sunlight, Fire

10.5. Incompatible Materials

No data available

10.6. Hazardous decomposition products

CO, CO₂

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

[Ethanol]

Oral-rat LD50 >5,000 mg/kg

Inhalation-rat LC50 >20 mg/L/4h

[Propan-2-ol]

Oral-rat LD50 >5,000mg/kg

Dermal-rabbit LD50 >5,000mg/kg

Inhalation-rat LC50 >20 mg/L/4h

[Propan-1-ol]

Oral-rat LD50 >2,000mg/kg

Dermal-rabbit LD50 >2,000mg/kg

Inhalation-rat LC50 >20 mg/L/4h

Serious eye damage : Category 1 Causes serious eye damage

Specific target organ toxicity : Category 3 May cause drowsiness or dizziness
(single exposure)

Carcinogenicity : This product does not contain any component that is considered a human carcinogen by IARC, ACGIH, EPA, EU or NTP .

SECTION 12: Ecological information

12.1. Toxicity : No data available

12.2. Persistence and degradability : No data available

12.3. Bioaccumulative potential : No data available

12.4. Mobility in soil : No data available

12.5. Results of PBT and vPvB assessment : No data available

12.6. Other adverse effects : No data available

SECTION 13: Disposal considerations

13.1. Waste treatment 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.

SECTION 14: Transport information

14.1. UN number	DOT, ADR, IMDG, IATA : UN1210
14.2. UN proper shipping name	DOT, ADR, IMDG, IATA : PRINTING INK, flammable
14.3. Transport hazard class(es)	DOT, ADR, IMDG, IATA : · Class 3 (Flammable liquids) · Label 3
14.4. Packing group	DOT, ADR, IMDG, IATA : II
14.5. Environmental hazards	Marine pollutant : No
14.6. Special precautions for user	EMS Number : F-E,S-D
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	: Not applicable.



☆☆

Artline CLIX WHITEBOARD MARKER (EK-573A,EK-593A) is not a hazardous material by the special provision.
 Artline Refill Cartridge for Artline CLIX WHITEBOARD MARKER (EK-573AR) is not a hazardous material by the special provision.

Artline CLIX WHITEBOARD MARKER (EK-573A,EK-593A) (The amount of ink : less than 10ml)
 Artline Refill Cartridge for Artline CLIX WHITEBOARD MARKER (EK-573AR)

UN number : UN3175
 UN proper shipping name : Solids containing Flammable Liquid. n.o.s.
 IATA Special Provision A46
 IMDG Code Special Provision 216

According to IATA Special Provision A46, and IMDG Code Special Provision 216, small inner packagings consisting of sealed packets and articles containing less than 10 mL of a Class 3 liquid in Packing Group II or III absorbed onto a solid material are not subject to as a hazardous material/dangerous goods provided there is no free liquid in the packet or article.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

< EU Information >

Regulation (EC) No 1272/2008 (CLP)

Substance name : [Ethanol]
 Hazard Class & Category : Flammable liquids, Category 2
 Symbols : GHS02
 Signal word : Danger
 Hazard statements : H225 Highly flammable liquid and vapour

Substance name : [Propan-2-ol]
 Hazard Class & Category : Flammable liquids, Category 2
 Eye irritation, Category 2
 Specific target organ toxicity - single exposure, Category 3

Symbols : GHS02,GHS07
 Signal word : Danger
 Hazard statements : H225 Highly flammable liquid and vapour
 H319 Causes serious eye irritation
 H336 May cause drowsiness or dizziness

Substance name : [Propan-1-ol]
 Hazard Class & Category : Flammable liquids, Category 2
 Serious eye damage, Category 1
 Specific target organ toxicity - single exposure, Category 3

Symbols : GHS02,GHS07,GHS05
 Signal word : Danger
 Hazard statements : H225 Highly flammable liquid and vapour
 H318 Causes serious eye damage

H336 May cause drowsiness or dizziness

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

SECTION 16: Other information



EU RoHS Directive(2011/65/EC)

ELV Directive(2000/53/EC)

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.