

Artline Xstamper

Safety Data Sheet (MSDS)

Issued Date : May 5,2008 Revised Date : March 8,2012

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name : Artline Permanent Marker Color : (Black)

EK-30, EK-50, EK-70, EK-90, EK-100, EK-110, EK-120, EK-130,

EK-700,

Artline marking INK

ESK-20,ESK-3 Color : (Black)

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 : Permanent marker ink



red ink sample

Artline 70 @

SECTION 2 HAZARDS IDENTIFICATION

GHS Classification

Physical Hazards

Flammable liquids Category 2

Health Hazards

Serious eye damage /eye irritation Category 1

Environmental Hazards

Hazardous to the aquatic environment (acute)

Hazardous to the aquatic environment (chronic)

Classification not possible
Classification not possible
Classification not possible

LABEL ELEMENTS

Symbols :





Signal word : Danger

Hazard statement : Highly flammable liquid and vapour (H225)

Causes serious eye damage (H318)

Precautionary statement

[Prevention]

(P201) Obtain special instructions before use. (P202) Do not handle until all safety precautions have been read and understood. Do not eat, drink or smoke when using this product. (P270)(P210) Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Take precautionary measures against static discharge. (P243) (P280) Wear protective gloves/protective clothing/eye protection/face protection. Use only outdoors or in a well-ventilated area. (P271)(P264) Wash hands thoroughly after handling. Keep container tightly closed. (P233) (P273)Avoid release to the environment.

[Response]

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable (P304+P340)

for breathing.

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 ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. (P303+P361+P353)

Rinse skin with water/shower.

If skin irritation occurs: Get medical advice/attention. (P332+P313)

IF SWALLOWED : Get medical advice/attention if you feel unwell.Rinse mouth. (P301+P314+P330)

In case of fire: Use dry chemical powder, form or carbon dioxide for extinction. (P370+P378)

(Storage)

Store in a well-ventilated place. Keep cool. (P403+P235)

[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 /	Composition	CAS	Hazard Class	Hazard statement
Generic name	weight %	Registry No.	(category)	
Ethanol	50~60	64-17-5	Flam.Liq. 2	H225
Propan-1-ol	1~10	71-23-8	Flam.Liq. 2 Eye Irrit. 1 STOT.SE. 3	H225 H318 H335,H336
Ethyl lactate	10~20	97-64-3	Flam.Liq. 3 Eye Irrit. 1 STOT.SE. 3	H226 H318 H335
Benzyl alcohol	1~5	100-51-6	Acute Tox.(oral) 4 Acute Tox.(inhal.) 4	H302 H332
Synthetic resin	5~15	Confidential	none	none
Dyestuff	5~15	Confidential	none	none
Additive	1~5	Confidential	none	none
total	100			

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 (2010)

Ethanol STEL 1000ppm Propan-1-ol TWA 100ppm

OSHA PEL

Ethanol TWA 1000ppm Propan-1-ol TWA 200ppm

DIRECTIVE 2000/39/EC none
Japan Society for Occupational Health (2010) none

PERSONAL PROTECTION

: 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.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance : black liquid

Odour : minor solvent oder

pH: : Not applicable

Boiling point : No data available

Flash point : 16.5 °C (closed cup)

[ISO11014:2009][Shachihata Inc.] [ESK-20_black_ b] 4/6

Relative Density (at 25°C) : $0.9 \sim 1.0$ (g/cm³)

Solubility in Water : Insoluble

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_2

SECTION 11 TOXICOLOGICAL INFORMATION

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

[Ethanol]

Oral-rat LD50 $7,060 \,\mathrm{mg/kg}$ Inhalation-rat LC50 $20,000 \,\mathrm{ppm/10h}$

[Propan-1-ol]

Oral-rat LD50 1,900mg/kg Dermal-rabbit LD50 6,700mg/kg

[Ethyl lactate]

 Oral-rat
 LD50
 >2,000mg/kg

 Dermal-rabbit
 LD50
 >5,000mg/kg

[Benzyl alcohol]

Oral-rat LD50 1,610mg/kg Inhalation-rat LC50 4,178ppm/4H

Serious eye damage /eye irritation : Category 1 Causes serious eye damage

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

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

INTERNATIONAL REGULATIONS

Land : Transport in accordance with your country and regions regulations (RID,ADR, DOT etc.).

Sea : Transport in accordance with IMDG Code.

Air : Transport in accordance with ICAO-TI/IATA-DGR.

UN number : 1210

UN shipping name : Printing ink

UN Classification : 3
Packing group : II

Marine pollutant : Not applicable

SECTION 15 REGULATORY INFORMATION

< 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-1-ol]

Hazard Class & Category : Flammable liquids, Category 2

Eye irritation, 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

Substance name : [Ethyl lactate]

Hazard Class & Category : Flammable liquids, Category 3

Eye irritation, Category 1

Specific target organ toxicity - single exposure, Category 3

Symbols : GHS02,GHS07,GHS05

Signal word : Danger

Hazard statements : H226 Flammable liquid and vapour

H318 Causes serious eye damageH335 May cause respiratory irritation

Substance name : [Benzyl alcohol]

Hazard Class & Category : Acute toxicity - Oral, Category 4

Acute toxicity - Inhalation, Category 4

Symbols : GHS07 Signal word : Warning

Hazard statements : H302 Harmful if swallowed

H332 Harmful if inhaled

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

Hazard designation

Substance name : [Ethanol]
Classification : F; R11

R-Phrase : R11 : Highly flammable.

S-Phrase : S2: Keep out of the reach of children.

S7: Keep container tightly closed.

S16: Keep away from sources of ignition - No smoking.

Symbols and indications of danger specific F: Highly flammable

Hazard designation

Substance name : [Propan-1-ol]

 $\begin{array}{ccc} Classification & : & F; R11 - Xi; R41 - R67 \\ R-Phrase & : & R11 : Highly flammable. \end{array}$

R41: Risk of serious damage to eyes.

 $R67\ : \ Vapours\ may\ cause\ drowsiness\ and\ dizziness.$

S-Phrase : S2 : Keep out of the reach of children.

S7: Keep container tightly closed.

S16: Keep away from sources of ignition - No smoking.

S24 : Avoid contact with skin.

S26: In case of contact with eyes, rinse immediately with plenty of water

and seek medical advice.

S39: Wear eye/face protection.

Symbols and indications of danger specific F: Highly flammable Xi: Irritant

Hazard designation

Substance name : [Ethyl lactate]
Classification : R10 - Xi; R37-41
R-Phrase : R10: Flammable.

R37: Irritating to respiratory system. R41: Risk of serious damage to eyes.

S-Phrase \Box S2 : Keep out of the reach of children.

S24: Avoid contact with skin.

S26: In case of contact with eyes, rinse immediately with plenty of water

and seek medical advice. S39: Wear eye/face protection.

Symbols and indications of danger specific Xi: Irritant

Hazard designation

Substance name : [Benzyl alcohol]
Classification : Xn; R20/22

R-Phrase : R20/22 : Harmful by inhalation and if swallowed.

S-Phrase : S2: Keep out of the reach of children.

S26: In case of contact with eyes, rinse immediately with plenty of water

and seek medical advice.

Symbols and indications of danger specific Xn: Harmful

< USA Information >

OSHA STATUS: This product is 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) : not Listed SARA TITLE III Section 313 (40 CFR 372) : not Listed California Proposition 65 (Chemicals known to cause cancer) : not Listed

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.