

Safety Data Sheet (MSDS)

Artline<sup>®</sup> Xstamper

(P310)

Issued Date : May. 16th, 2008 Revised Date : Apr. 2nd, 2018

SECTION 1	CHEMICAL PRODUCT AND COMPANY IDENTIFICATION	
Product Name	Artline OVERHEAD PROJECTION MARKERS Colour : (Black)	
	EK-853, EK-854, EK-855	
Company Name	Shachihata Inc.	
Address	: 4-69,Amazuka-cho,Nishi-ku,Nagoya City,451-0021,Japan	54@M
Telephone	: + 81- 52- 521- 3600	N MARKER I VI
Fax	: + 81- 52- 521- 3899 Artline	
Contact (e-mail)	: <u>chem-analysis@ngy.shachihata.co.jp</u>	
Emergency Call	:+ 81- 52- 521- 3600 (Shachihata Inc. [Japan] )	
Recommended us	e : Permanent marker ink	
SECTION 2	HAZARDS IDENTIFICATION	
GHS Classification	1	
Physical Hazard	ls	
Flammable liq	uids Category 2	
Health Hazards		
Serious eye d	amage Category 1	
Specific target	t organ toxicity ; single exposure Category 3 (respiratory tract irritation)	
LABEL ELEMENTS Symbols		
Signal word	: Danger	
Hazard stateme	nt : Highly flammable liquid and vapour	(H225)
	Causes serious eye damage	(H318)
	May cause respiratory irritation	(H335)
Precautionary s [Prevention] Keep out of re	statement	(P102)
	om heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	(P210)
	onary measures against static discharge.	(P243)
Avoid breathir		(P261)
Use only outd	oors or in a well-ventilated area.	(P271)
Wear eye prot	tection.	(P280)
[Response]		
	: Use dry chemical powder, foam or carbon dioxide to extinguish.	(P370+P378)
	Remove person to fresh air and keep comfortable for breathing.	(P304+P340)
	Rinse cautiously with water for several minutes.	(P305+P351+P33
	Remove contact lenses, if present and easy to do. Continue rinsing. persists : Get medical advice and attention.	(P337+P313)
•	all a POISON CENTER or physician	(P337+P313) (P210)

Immediately call a POISON CENTER or physician.

IF ON SKIN (or hair) : Take off immediately all contaminated clothing. Rinse skin with water.
If skin irritation occurs : Get medical advice and attention.
[Storage]
Store in a well-ventilated place. Keep container tightly closed.
[Disposal]
Dispose of contents and container in accordance with local regulations.

(P501)

(P303+P361+P353)

(P332+P313)

(P403+P233)

# SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

### Substance / Mixture : Mixture Ingredients :

Chemical Name / Generic name	Composition weight %	CAS Registry No.	Hazard Class (category)	Hazard statement
Ethanol	45 ~ 55	64-17-5	Flam. Liq. 2	H225
Propan-1-ol	1 ~ 10	71-23-8	Flam. Liq. 2 Eye Dam. 1 STOT. SE. 3	H225 H318 H336
Ethyl lactate	15 ~ 25	97-64-3	Flam. Liq. 3 Eye Dam. 1 STOT. SE. 3	H226 H318 H335
Synthetic resin	5 ~ 15	Confidential	none	none
Dyestuff	10 ~ 20	Confidential	none	none
total	100			

★★ This ink contain chromium compounds, dyestuff (Trivalent chromium, not Hexavalent chromium).

#### **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. : After rinse mouth immediately, give about 250 ml of water or milk and thin in the stomach, IF SWALLOWED 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

[ISO11014:2009][Shachihata Inc.] [EK-853\_black\_i] 3/5

#### METHODS AND MATERIALS 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.

#### 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.<br/>Avoid contact with skin, eyes and clothing.<br/>Obtain special instructions before use.<br/>Do not handle until all safety precautions have been read and understood.<br/>Do not eat, drink or smoke when using this product.
- Storage: Keep containers tightly closed and store in a cool and dry place.<br/>Keep away from heat and flame, ignition source and sunlight.<br/>Keep out of the reach of children.

### SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

#### OCCUPATIONAL EXPOSURE LIMIT

ACGIH (2017)		
Ethanol	STEL	1,000 ppm
Propan-1-ol	TWA	100 ppm
OSHA PEL		
Ethanol	TWA	1,000 ppm
Propan-1-ol	TWA	200 ppm
DIRECTIVE 2000/39/EC	none	

Japan Society for Occupational Health (2017) 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 odour	
рН	: Not applicable	
Boiling point	∶ 78 ~ 154°C	
Flash point	: 16°C (closed cup)	
Relative Density (at 25°C)	: 0.85 ~ 0.95 (g/cm <sup>3</sup> )	
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 <sub>2</sub>

SECTION 11 T	OXICOLOGIC	AL INFORMA	TION		
Acute toxicity	: LD	: LD/LC50 values that are relevant for classification			
	[Et	hanol]			
		Oral-rat	LD50	>5,000 mg/kg	
		Inhalation-rat	LC50	>20 mg/L/4h	
	[Pr	opan-1-ol]			
		Oral-rat	LD50	>2,000 mg/kg	
		Dermal-rabbit	LD50	>2,000 mg/kg	
		Inhalation-rat	LC50	>20 mg/L/4h	
	[Et	hyl lactate]			
		Oral-rat	LD50	>2,000 mg/kg	
		Dermal-rabbit	LD50	>5,000 mg/kg	
Serious eye damage	e : Ca	tegory 1 Ca	uses seriou	s eye damage	
Specific target orga (single exposure)	•	tegory 3 Ma	y cause res	piratory irritation	
Carcinogenicity		•		ny component that is considered ACGIH, EPA, EU or 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

UN number	(DOT, ADR, IMDG, IATA)	: UN1210	
UN proper shipping name	(DOT, ADR, IMDG, IATA)	: PRINTING INK, flammable	
UN Classification		: 3	
Packing group	(DOT, ADR, IMDG, IATA)	: 1	3
Marine pollutant (Y/N)		: N	
EmS number		: F-E,S-D	

☆☆

Artline OVERHEAD PROJECTION MARKERS (EK-853,EK-854,EK-855) is not a hazardous material by the special provision.

	Artline OVERHEAD PROJEC	TION MARKERS (EK-853,EK-854,EK-855) (The amount of ink : less than 10ml)	
	UN number	: UN3175	
	UN proper shipping name	: Solids containing Flammable Liquid. n.o.s.	
	ΙΑΤΑ	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		

of sealed packets and articles containing less than 10 mL of a Class 3 liquid in Packing Group II or II 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.

#### **REGULATORY INFORMATION SECTION 15**

< EU Information >				
Regulation (EC) No 1272/2008	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			
	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			
Substance name	: [Ethyl lactate]			
Hazard Class & Category	: Flammable liquids, Category 3			
	Serious eye damage, 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 damage			
	H335 May cause respiratory irritation			
< 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 Applicable
CERCLA REPORTABLE QUANTITY (40 CFR 117,302)	: Not Applicable
SARA TITLE III Section 313 (40 CFR 372)	: Not Applicable
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(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.



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# **Test Report**

2 April, 2018

#### Type of Product : Artline OVERHEAD PROJECTION MARKER EK-853, EK-854, EK-855 <Object:Ink> (Black)(Blue)(Red)(Green)(Brown)(Orange)(Purple)(Yellow)

Test Item		Colour	Result (unit mg/kg)	Minimum limit of determination	Testing Date
a)	Lead and lead compounds	All colours	Not detected	2	16 January, 2015 - 22 January, 2015
b)	Cadmium and cadmium compounds	All colours	Not detected	2	16 January, 2015 - 22 January, 2015
c)	Mercury and mercury compounds	All colours	Not detected	2	16 January, 2015 - 22 January, 2015
d)	Hexavalent chromium compounds	7 colours (except Black)	Not detected	2	4 February, 2015 - 16 February, 2015
u)		Black	Not detected	2	16 January, 2015 - 27 January, 2015
e)	PBBs/PBDEs	All colours	Not detected	5	16 January, 2015 - 22 January, 2015
f)	DBP	All colours	Not detected	30	16 January, 2015 - 22 January, 2015
g)	BBP	All colours	Not detected	30	16 January, 2015 - 22 January, 2015
h)	DEHP	All colours	Not detected	30	16 January, 2015 - 22 January, 2015
i)	DIBP	All colours	Not detected	30	16 January, 2015 - 22 January, 2015

(Unit; mg/kg=ppm)

Analysis company : Pb, Cd, Hg, PBBs/PBDEs, DBP, BBP, DEHP, DIDP - SGS-CSTC [Approved Signatory : Marry Ma] Cr(VI) - SGS Japan [Lab Manager : Yukihiro Ouchi]

		Pretreatment:	Analysis method:
a),b)	<all colours=""></all>	IEC 62321-5:2013	ICP-OES
c)	<all colours=""></all>	IEC 62321-4:2013	ICP-OES
d)	<all colours=""></all>	Water extraction	UV-VIS
		(The Analysis of Cr(VI) has been taken removal process of element interference.)	
e)	<all colours=""></all>	IEC 62321:2008	GC-MS
f),g),h),i	i) <all colours=""></all>	EN 14372:2004	GC-MS

note) •A sample completely dissolved in preprocessing operation and performed quantitative analysis. (Lead,Cadmium,Mercury) "Not detected" means under the minimum limit of determination.

•Black,Orange ink contain chromium compounds,dyestuff (Trivalent chromium, not Hexavalent chromium). Please note that test result by X-ray fluorescence spectrometer shows total chromium value.



Shachihata Inc

Yukihiko Shibagaki Quality Assurance Gr.