

Safety Data Sheet

(MSDS)



Issued Date:August16,2009Revised Date:April11,2013

SECTION 1	CHEMICAL PRODUCT AND COMPANY IDENTIFICATION		
Product Name	: Artline 200, 210, 220 all colours		
	EK-200 ,EK-200CC ,EK-210 ,EK-220		
	(black,blue,red,green,brown,orange,purple,yellow,pink,magenta,apricot,light royal blue, sky blue,turquoise,yellow green,dark green,dark red,dark brow		
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	s : Not classified	102	
Health Hazards	· Not classified	e220 Fire 0.2	
Environmental H	Iteration Iteration Iteration Classification not possible	EINE 0.4	
	Artin	10 200 FINE 0.4	
LABEL ELEMENT: Symbols	: none	DIEDNUM 0.6	
Signal word	none	E210 MEDIUM 0.6	
Hazard statemen			
Precautionary st			
-	ands thoroughly after handling.	(P264)	
Respon			
IF INHA		(P304+P340)	
IF IN E	YES : Rinse cautiously with water for several minutes.	(P305+P351+P33	
	Remove contact lenses, if present and easy to do. Continue rinsing.		
If eve ir	ritation persists : Get medical advice/attention.	(P337+P313)	
·	LLOWED : Get medical advice/attention if you feel unwell.Rinse mouth.	(P301+P314+P33	
Storage	-	(_ 501 - 1 01 1 - 1 00	
-	a well-ventilated place. Keep container tightly closed.	(P403+P233)	
[Dispos		(1 100 - 1 200)	
	of contents/container to waste in accordance with	(P501)	
_	/regional/ national/international regulation (to be specified).		

local/regional/ national/international regulation (to be specified).

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture : Mixture

Ingredients

black

Chemical Name /	Composition	CAS	Hazard Class	Hazard statement
Generic name	weight %	Registry No.	(category)	
Water	60~70	7732-18-5	none	none
ethane-1,2-diol	5~15	107-21-1	Acute Tox.(oral) 4	H302
2,2'-oxydiethanol	$5 \sim 15$	111-46-6	Acute Tox.(oral) 4	H302
Dyestuff	5~15	Confidential	none	none
Others	1~10	Confidential	none	none
total	100			

Other colours

Chemical Name /	Composition	CAS	Hazard Class	Hazard statement
Generic name	weight %	Registry No.	(category)	
Water	$60{\sim}70$	7732-18-5	none	none
ethane-1,2-diol	$10 \sim 20$	107-21-1	Acute Tox.(oral) 4	H302
2,2'-oxydiethanol	5~15	111-46-6	Acute Tox.(oral) 4	H302
Dyestuff	1~10	Confidential	none	none
Others	1~10	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 UNSUITABLE EXTINGUISHING MEDIA

- : Dry chemical powder, foam or carbon dioxide
- : 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

ECTION 7	HANDLING AND STORAGE	Ξ		
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 AN	D PERSONAL PRO	TECTION	
OCCUPATIONAL EX				
ACGIH (2012 ethane-1,2		STEL ceiling	$100 \text{mg/m}^3(\text{H})$	
OSHA PEL		Not listed		
DIRECTIVE	2000/39/EC			
ethane-1,2		TWA STEL	20ppm 40ppm	
Japan Societ	y for Occupational Health (2011)	Not listed	**	
: Eye Prote Not requi : Skin Prot	red, but wear safety gloves, if ne ection ired, but wear safety glasses, if n	ecessary.		
^	PHYSICAL AND CHEMICA	• • • •		
Appearance	: liquid			
Odour	: odorless			
рН	: 7 - 9			
Boiling point	: No data	available		
Flash point	Not app	licable (closed cup)		
Relative Density (a	t 25°C) : 1.0 - 1.2	(g/cm^3)		
Solubility in Water	: soluble			
SECTION 10	STABILITY AND REACTIV	ITY		
Stability	: Stable u	nder normal handling.		
Conditions to Avoid	: High ter	nperature, Direct sunligh	nt, Fire	
Incompatible Materia	ls : Strong o	xidising agents		

Hazardous Decomposition Products

SECTION 11 TOXICOLOGICAL INFORMATION

Acute toxicity	: LD/LC50 values that are relevant for classification [ethane-1,2-diol] and [2,2'-oxydiethanol]			
	Oral-rat Dermal-rabbit	LD50 LD50	>300 - <=2,000mg/kg >5,000 mg/kg	
Carcinogenicity	: Not listed by IARC, EPA, EU, NTP.			
SECTION 12	ECOLOGICAL INFORM	IATION		

: CO, CO₂

: Classification not possible

Hazardous to the aquatic environment (chronic)

- : Classification not possible
- : Classification not possible

SECTION 13 DISPOSAL CONSIDERATIONS

Hazardous to the ozone layer

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

SECTION 15 REGULATORY INFORMATION

< EU Information > Regulation (EC) No 1272/2008 (CLP) : [ethane-1,2-diol] Substance name Hazard Class & Category : Acute toxicity - Oral, Category 4 Symbols : GHS07 Signal word : Warning Hazard statements H302Harmful if swallowed Substance name : [2,2'-oxydiethanol] : Acute toxicity - Oral, Category 4 Hazard Class & Category Symbols : GHS07 Signal word : Warning Hazard statements : H302 Harmful if swallowed Directive 67/548/EEC or 1999/45/EC : [ethane-1,2-diol] Substance name : Xn; R22 Classification **R**-Phrase : R22 Harmful if swallowed. : S2 Keep out of the reach of children. S-Phrase 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. S46 If swallowed, seek medical advice immediately and show this container or label. Symbols and indications of danger specific Xn : Harmful < USA Information > 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]

: not Listed

California Proposition 65 (Chemicals known to cause cancer)

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.