

MATERIAL SAFETY DATA SHEET

[MSDS NO.AA1001A-9401]

PRODUCT :
 Artline PAINT MARKER
 EK-409XF,EK-400XF,EK-440XF,EK-444XF (All colors)

Issue Date Jan.5,2007

Not classified as Hazardous according to criteria of Worksafe Australia

COMPANY DETAILS

JAPAN:

MANUFACTURER/SUPPLIER : Shachihata Inc.
ADDRESS : 4-69,Amazuka-chou,Nishi-ku,Nagoya,451-0021,Japan
TELEPHONE NUMBER : ++81 52 521 3600
FAX NUMBER : ++81 52 521 3899

AUSTRALIA :

AGENT : Pelikan Artline Pty Limited
ABN 51 084 958 556
ADDRESS : 2 Coronation Avenue,Kings Park,
 Blacktown Business Centre NSW 2148
TELEPHONE NUMBER: 02-9674-0900
FAX NUMBER : 02-9674-0910
EMERGENCY TELEPHONE : 02-9674-0900 or Mobile:0419-206-163

IDENTIFICATION

Product Name : Artline PAINT MARKER
Ship Name (CSN) : non hazardous
Other Names : -
UN No. : 1210 **D.G.CLASS :** 3 **PACK. GRP :** II
HAZCHEM : n/a **SUB. RISK :** No Data **SUSDP :** Not Scheduled
PRODUCT USE : Paint marker

PHYSICAL DATA (INK)

APPEARANCE AND ODOUR Liquid, solvent odour.
BOILING POINT No data available
MELTING POINT n/a
VAPOUR PRESSURE n/a
VOLATILE (wt.%) 40~70
DENSITY(g/cm3) { White } 1.2~1.3 { Other color } 0.9~1.0
FLASH POINT { White,Black } -5 °C { Other color } 5 °C (closed cup)
FLAMMABILITY LIMITS no data
REL. VAPOUR DENSITY no data
SOLUBILITY IN WATER Insoluble

INGREDIENTS (INK)

Chemical or Common Name(s)	wt.%			CAS(TSCA) Number	EINECS Number
	WHITE	BLACK	Others		
Cyclohexane,methyl-	20~30	40~50	—	108-87-2	203-624-3
Naphtha(petroleum),hydrotreated heavy	1~10	1~10	—	64742-48-9	265-150-3
Naphtha(petroleum),light alkylate	—	—	30~50	64741-66-8	265-068-8
Carbon black	—	1~10	—	1333-86-4	215-609-9

HEALTH HAZARD INFORMATION

HEALTH EFFECTS

ACUTE EFFECTS

SWALLOWED :

Not applicable

EYE :

A moderate eye irritant.
 May cause watering of eyes.
 High concentrations of vapors will cause irritation.

SKIN :

Contact with skin may result in irritation.
 Repeated or prolonged skin contact may lead to dermatitic effects.
 Will have a degreasing action on the skin.

INHALED :

Toxic by inhalation.
 The vapor is an irritant to the mucous membranes and respiratory tract.
 Inhalation of vapor can result in headaches, dizziness and possible nausea.
 Possible CNS effects.

CHRONIC EFFECTS :

Possible liver and kidney disorders.
 Repeated or prolonged skin contact can cause chronic dermatitis.

FIRST AID

SWALLOWED :

Not applicable

EYE CONTACT :

Immediately flush with plenty of water.
 Seek medical advice immediately.

SKIN CONTACT :

Wipe off with dry cloth and wash with mild soap.
 Seek medical advice immediately.

INHALATION :

Move to well ventilated place.
 Seek medical advice immediately.

FIRST AID FACILITIES :

No Data

ADVICE TO DOCTOR

Treat symptomatically.

ACUTE TOXICITY (RTECS ; 2002.03):

[Cyclohexane,methyl-]

Oral	LD ₅₀ (rat)	>3,200 mg/kg
Inhalation	LCL ₀ (rat)	82 mg/ m ³ /1H
[Naphtha(petroleum),light alkylate]		
Oral	TDL ₀ (rat)	10 mg/kg/4W-I
Inhalation	TCL ₀ (rat)	7,500ppm/13W-I

[Carbon black]

Oral	LD ₅₀ (rat)	>15,400 mg/kg
Inhalation	TCL ₀ (rat)	50 mg/ m ³ /6H/90D-I

PRECAUTIONS FOR USE

EXPOSURE CONTROL PARAMETERS :

OSHA PEL (2002)			
	[Cyclohexane,methyl-] TWA	500ppm(2,000mg/m3)	
	[Carbon black] TWA	3.5mg/m3	
ACGIH TLV (2002)			
	[Cyclohexane,methyl-] TWA	400ppm	
	[Carbon black] TWA	3.5mg/m3	
EN LIMIT (2000/39/EN)			
	Not established		

ENGINEERING CONTROLS :

- Not required.
- Maintain concentration below recommended exposure limit.
- Use with local exhaust ventilation.
- Vapor heavier than air.
- Keep stock in a well ventilated area.
- Keep tightly capped.

PERSONAL PROTECTION

- Not required.
- Avoid skin and eye contact.
- Do not smoke.
- Remove any naked lights or strong heat sources.

FLAMMABILITY

- Vapors are flammable, may form explosive mixtures with air.
- While in use, keep away from heat, sparks or naked flames.
- Heating may cause explosion.

ENVIRONMENT :

- Not applicable

OTHER PRECAUTIONS :

- Keep away from oxidizing agents, peroxides, acids, acid chlorides, acid anhydrides, alkali metals and ammonia.

SAFE HANDLING INFORMATION

STORAGE AND TRANSPORT

- Store in a cool, dry, well-ventilated location.
- Keep tightly capped.

SPILLS AND DISPOSAL :

- Disposal as usual industrial waste goods, follow all regulations in your country.

FIRE /EXPLOSIUON HAZARD

- Extinguish fire with the following :
 - Use water fog.
 - Use CO2, dry chemical or foam.

OTHER SAFE HANDLING INFORMATION

MATERIAL SAFETY DATA SHEET

[MSDS NO.AA1003B-9401]

PRODUCT :
 Artline METALLIC INK MARKER
 EK-900XF, EK-990XF, EK-999XF
 (Gold)(Silver)

Issue Date Jan.5,2007

IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name : Artline paint marker
Other Names : -
Recommended Use : paint marker

Supplier name/address/telephone no./Emergency phone number**[JAPAN]**

SUPPLIER NAME : Shachihata Inc.
ADDRESS : 4-69,Amazuka-chou,Nishi-ku,Nagoya,451-0021,Japan
TELEPHONE NO.: ++ 81 52 521 3600
FAX NUMBER : ++ 81 52 521 3899

[AUSTRALIA]

AGENT : Pelikan Artline Pty Limited
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ADDRESS : 2 Coronation Avenue,Kings Park,
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HAZARDS IDENTIFICATION

Not classified as Hazardous according to the criteria of Worksafe Australia

COMPOSITION / INFORMATION ON INGREDIENTS (INK)

<MIXTURE>

Chemical or Common Name(s)	wt. %	Gold	Silver	CAS. Number
Cyclohexane,methyl- Alkanes,C9-C12-iso-		30~40 1~5	50~60 1~5	108-87-2 90622-57-4

FIRST AID MEASURES**SWALLOWED :**

Not applicable

EYE CONTACT :

Immediately flush with plenty of water.
 Seek medical advice immediately.

SKIN CONTACT :

Wipe off with dry cloth and wash with mild soap.
 Seek medical advice immediately.

INHALATION :

Move to well ventilated place.
 Seek medical advice immediately.

FIRST AID FACILITIES :

No Data

FIRE FIGHTING MEASURES

Suitable Extinguishing Media :

water fog
CO₂, dry chemical or foam

Precaution for fire fighters and special protective equipment :

Vapors are flammable, may form explosive mixtures with air.
While in use, keep away from heat, sparks or naked flames.
Heating may cause explosion.

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.

HANDLING AND STORAGE

Store in a cool, dry, well-ventilated location.
Keep tightly capped.

EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE CONTROL PARAMETERS :

OSHA PEL (1994)			
	[Cyclohexane,methyl-]	TWA	500 ppm (2000 mg/m ³)
ACGIH TLV (2003)			
	[Cyclohexane,methyl-]	TWA	400 ppm
EN LIMIT (2000/39/EN)			
	Not established		

PERSONAL PROTECTION

Not required.
Avoid skin and eye contact.
Do not smoke.
Remove any naked lights or strong heat sources.

ENGINEERING CONTROLS :

Not required.
Maintain concentration below recommended exposure limit.
Use with local exhaust ventilation.
Vapor heavier than air.
Keep stock in a well ventilated area.
Keep tightly capped.

PHYSICAL AND CHEMICAL PROPERTIES (INK)

Appearance	
Physical state	Liquid
Odor	Minor solvent odor
Boiling Point / Boiling Range	No data available
Flash Point	-2°C
Explosive Properties	No data available
Relative Density (g/cm ³)	0.9(Silver), 1.2 (Gold) g/cm ³
Solubility [Water]	insoluble

STABILITY AND REACTIVITY

Keep away from oxidizing agents, peroxides, acids, acid chlorides, acid anhydrides, alkali metals and ammonia.

TOXICOLOGICAL INFORMATION**ACUTE EFFECTS****SWALLOWED :**

Not applicable

EYE :

A moderate eye irritant.
May cause watering of eyes.
High concentrations of vapors will cause irritation.

SKIN :

Contact with skin may result in irritation.
Repeated or prolonged skin contact may lead to dermatitic effects.
Will have a degreasing action on the skin.

INHALED :

Toxic by inhalation.
The vapor is an irritant to the mucous membranes and respiratory tract.
Inhalation of vapor can result in headaches, dizziness and possible nausea.
Possible CNS effects.

CHRONIC EFFECTS :

Possible liver and kidney disorders.
Repeated or prolonged skin contact can cause chronic dermatitis.

Treat symptomatically.

ACUTE TOXICITY (RTECS ; 2004.11):

[Cyclohexane,methyl-]

Oral	LD ₅₀ (rat)	>3,200 mg/kg
Inhalation	TCL ₀ (rat)	82 mg/m ³ /1H

[Alkanes,C9-C12-iso-]

Oral	LD ₅₀ (rat)	>10 mg/kg
Inhalation	TCL ₀ (rat)	>12,200 mg/m ³ /4H
Skin	LD ₅₀ (rabbit)	>3,200 mg/kg

ECOLOGICAL INFORMATION

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

DISPOSAL CONSIDERATIONS

Disposal as usual industrial waste goods, follow all regulations in your country.
Do not dump this product into sewers, on the ground or into any body of water.

TRANSPORT INFORMATION**Ship Name (CSN) :**

UN CLASS	3
UN Packing Group (PG)	II
UN NUMBER	1210
Proper Shipping Name	printing ink,flammable

REGULATORY INFORMATION

HAZARD CLASSIFICATION of INGREDIENTS

[Cyclohexane,methyl-] [Alkanes,C9-C12-iso-]	[F,Xn,N]	R:11-38-51/53-65-67 R:10-65-66	S: (2-)9-16-33-61-62 S: (2-)23-24-33-43A-62
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Symbol :	F	(Highly flammable)
	Xn	(Harmful)
	N	(Dangerous for the environment)
Risk Phrase :	10	(Flammable)
	11	(Highly flammable)
	38	(Irritating to skin)
	51/53	(Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.)
	65	(Harmful: may cause lung damage if swallowed.)
	66	(Repeated exposure may cause skin dryness or cracking.)
Safety Phrase :	2	(Keep out of the reach of children.)
	9	(Keep container in a well-ventilated place.)
	16	(Keep away from sources of ignition – No smoking)
	23	(Do not breathe gas/fumes/vapor/spray.)
	24	(Avoid contact with skin.)
	33	(Take precautionary measures against static discharges.)
	43A	(In case of fire, use sand, earth, chemical powder or foam.)
	61	(Avid release to the environment. Refer to special instructions/safety data sheets.)
	62	(If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.)

OTHER INFORMATION

REFERENCES :

N.IRVING Sax and RICHARD J. LEWIS,SR, "Dangerous Properties of industrial Materials Seventh Edition", Van Nostrand Reinhold (1989).
REGISTRY OF TOXIC EFFECTS IF CHEMICAL SUBSTANCES 1985-86 Edition

Contact Point : Mr. C Watt , Product Manager , Phone(02-9674-0900) Fax (02-9674-0910)

IMPORTANT ADVICE :

This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace.

Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including its use in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made ,the user should contact the supplier .Our responsibility for products sold is subject to our standard terms and conditions .