Shachihata

Artline®

Xstamper

Safety Data Sheet

according to Regulation (EC) No 453/2010

Revision Date : 14.05.2015

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

1.1. Product identifier

Product Name : Artline 400XF Paint Marker EK-400 XF Color : (White)
Artline 440XF Paint Marker EK-440 XF
Artline 444XF Paint Marker EK-444 XF
Artline 409XF Paint Marker EK-409 XF

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

Recommended use : Permanent 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
Aspiration toxicity, Category 1	H304	: May be fatal if swallowed and enters airways
Skin corrosion / irritation , Category 2	H315	: Causes skin irritation
Specific target organ toxicity, single exposure, Category 3 （narcotic effects)	H336	: May cause drowsiness or dizziness
Hazardous to the aquatic environment, chronic toxicity, Category 2	H411	: Toxic to aquatic life with long lasting effects

2.2. Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :

Signal word : Danger

Hazard statement :
Highly flammable liquid and vapour (H225)
May be fatal if swallowed and enters airways (H304)
Causes skin irritation (H315)
May cause drowsiness or dizziness (H336)
Toxic to aquatic life with long lasting effects (H411)

Precautionary statement

【Prevention】

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. (P210)
Take precautionary measures against static discharge. (P243)
Avoid breathing dust/fume/gas/mist/vapours/spray. (P261)

Wear protective gloves/protective clothing/eye protection/face protection. (P280)
Wash hands thoroughly after handling. (P264)
Use only outdoors or in a well-ventilated area. (P271)
Avoid release to the environment. (P273)

【Response】

In case of fire	:	Use dry chemical powder,form or carbon dioxide for extinction.	(P370+P378)
IF SWALLOWED	:	Immediately call a POISON CENTER or doctor/physician.	(P301+P310)
		Get medical advice/attention if you feel unwell. Rinse mouth.	(P301+P314+P330)
IF INHALED	:	Remove victim to fresh air and keep at rest in a position 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/attention.	(P337+P313)
IF ON SKIN (or hair)	:	Remove/Take off immediately all contaminated clothing.	(P303+P361+P353)
		Rinse skin with water/shower.	
IF ON SKIN	:	Wash with plenty of soap and water.	(P302+P352)
If skin irritation occurs	:	Get medical advice/attention.	(P332+P313)

Do NOT induce vomiting. (P331)
Collect spillage. (P391)

【Storage】

Store in a well-ventilated place. Keep container tightly closed. (P403+P233)

【Disposal】

Dispose of contents/container to waste in accordance with local/regional/ national/international regulation (to be specified). (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
Methylcyclohexane	25 ~ 35	108-87-2 203-624-3	Flam.Liq. 2 Asp.Tox. 1 Skin Irrit.2 STOT.SE. 3 Aquatic Chronic 2	H225 H304 H315 H336 H411
Isoparaffinic Hydrocarbon	5 ~ 15	90622-57-4 292-459-0	Flam.Liq. 3 Asp.Tox. 1 Aquatic Chronic 2	H226 H304 H411
Titanium dioxide	30 ~ 40	13463-67-7 236-675-5	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, 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.

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 areas and containers : 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/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		
Titanium dioxide	TWA	10 mg/m^3
ACGIH (2013)		
Methylcyclohexane	TWA	400ppm
Titanium dioxide	TWA	10 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	:	white liquid
Odour	:	minor solvent odour
pH	:	Not applicable
Boiling point	:	No data available
Flash point	:	-3 °C (closed cup)
Relative Density (at 25 °C)	:	1.2 ~ 1.4 (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, CO_2

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

[Methylcyclohexane]

Oral-rat	LD50	>5,000mg/kg
Inhalation-rat	LC50	23.3 mg/l/4H
Dermal-rabbit	LD50	>2,000mg/kg

[Isoparaffinic Hydrocarbon]

Oral-rat	LD50	>5,000mg/kg
Inhalation-rat	LC50	>5,000mg/m^3
Dermal-rabbit	LD50	>5,000mg/kg

Aspiration toxicity, Category 1	:	Category 1	May be fatal if swallowed and enters airways.
Skin corrosion / irritation	:	Category 2	Causes skin irritation.
Specific target organ toxicity single exposure	:	Category 3	May cause drowsiness or dizziness.

Carcinogenicity : Titanium dioxide 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 titanium dioxide, 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	:	Category 2 Toxic to aquatic life with long lasting effects
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.

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	:	[Methylcyclohexane]
Hazard Class & Category	:	Flammable liquids, Category 2
		Aspiration toxicity, Category 1
		Skin corrosion / irritation , Category 2
		Specific target organ toxicity - single exposure, Category 3
		Hazardous to the aquatic environment, chronic toxicity,Category 2
Symbols	:	GHS02,GHS08,GHS07,GHS09
Signal word	:	Danger
Hazard statements	:	H225 Highly flammable liquid and vapour
	:	H304 May be fatal if swallowed and enters airways
	:	H315 Causes skin irritation
	:	H336 May cause drowsiness or dizziness
	:	H411 Toxic to aquatic life with long lasting effects
Substance name	:	[Isoparaffinic Hydrocarbon]
Hazard Class & Category	:	Flammable liquids, Category 3
		Aspiration toxicity, Category 1
		Hazardous to the aquatic environment, chronic toxicity,Category 2
Symbols	:	GHS02,GHS08,GHS09
Signal word	:	Danger
Hazard statements	:	H226 Flammable liquid and vapour
	:	H304 May be fatal if swallowed and enters airways
	:	H411 Toxic to aquatic life with long lasting effects

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(2002/95/EC) and ELV Directive(2000/53/EC)
This product does not contain lead, mercury, cadmium, hexavalent chromium, polybrominated 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.