

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Revision Date : 2nd Feb. 2017

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 Colour : (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 : Paint 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

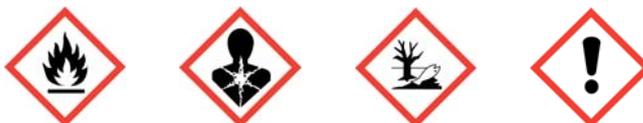
2.1.1. Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 2	H225 : Highly flammable liquid and vapour
Skin irritation, Category 2	H315 : Causes skin irritation
Specific target organ toxicity ; single exposure, Category 3 (narcotic effects)	H336 : May cause drowsiness or dizziness
Aspiration toxicity, Category 1	H304 : May be fatal if swallowed and enters airways
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)
	: Causes skin irritation	(H315)
	: May cause drowsiness or dizziness	(H336)
	: May be fatal if swallowed and enters airways	(H304)
	: Toxic to aquatic life with long lasting effects	(H411)

Precautionary statement
 【Prevention】

Keep out of reach of children.	(P102)
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	(P210)
Take precautionary measures against static discharge.	(P243)
Avoid breathing vapours.	(P261)
Wash hands thoroughly after handling.	(P264)
Use only outdoors or in a well-ventilated area.	(P271)
Avoid release to the environment.	(P273)
Wear protective gloves and eye protection .	(P280)
【Response】	
IF SWALLOWED : Immediately call a POISON CENTER or physician.	(P301+P310)
IF ON SKIN : Wash with plenty of water and soap.	(P302+P352)
IF ON SKIN (or hair) : Take off immediately all contaminated clothing. Rinse skin with water.	(P303+P361+P353)
IF INHALED : Remove person to fresh air and keep comfortable for breathing.	(P304+P340)
Call a POISON CENTER or physician if you feel unwell.	(P312)
Do NOT induce vomiting.	(P331)
If skin irritation occurs : Get medical advice and attention.	(P332+P313)
In case of fire : Use dry chemical powder, form or carbon dioxide to extinguish.	(P370+P378)
Collect spillage.	(P391)
【Storage】	
Store in a well-ventilated place. Keep container tightly closed.	(P403+P233)
【Disposal】	
Dispose of contents and container in accordance with local regulations.	(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 Skin Irrit. 2 STOT.SE. 3 Asp. Tox. 1 Aquatic Chronic 2	H225 H315 H336 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, 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.

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 : Keep containers tightly closed and store in a cool and dry place.
 areas and containers : 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 (2015)		
Methylcyclohexane	TWA	400 ppm
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, CO₂

SECTION 11: Toxicological information**11.1. Information on toxicological effects**

Acute toxicity	: LD/LC50 values that are relevant for classification
	[Methylcyclohexane]
	Oral-rat LD50 >5,000 mg/kg
	Dermal-rabbit LD50 >2,000 mg/kg
	Inhalation-rat LC50 >20 mg/L/4h

Skin irritation : Category 2 Causes skin irritation

Specific target organ toxicity : Category 3 May cause drowsiness or dizziness
; single exposure

Aspiration hazard : Category 1 May be fatal if swallowed and enters airways

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 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

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(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.