Shachihata

Artline® & Xstamper®

Safety Data Sheet (MSDS)

Issued Date : 16 May, 2008
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SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name : Artline 400XF Paint Marker EK-400 XF Colour : (Blue)
Artline 440XF Paint Marker EK-440 XF
Artline 444XF Paint Marker EK-444 XF
Artline 409XF Paint Marker EK-409 XF



Company Name : Shachihata Inc.
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Recommended use : Paint marker ink

SECTION 2 HAZARDS IDENTIFICATION

GHS Classification

Physical Hazards

Flammable liquids	Category 2

Health Hazards

Skin irritation	Category 2
Specific target organ toxicity ; single exposure	Category 3 (narcotic effects)
Aspiration hazard	Category 1
Carcinogenicity	Classification not possible

Environmental Hazards

Hazardous to the aquatic environment (acute)	Classification not possible
Hazardous to the aquatic environment (chronic)	Category 2
Hazardous to the ozone layer	Classification not possible

LABEL ELEMENTS

Symbols :



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: Get emergency medical help immediately. (P301+P316)

IF ON SKIN : Wash with plenty of water and soap. (P302+P352)

IF ON SKIN (or hair): Take off immediately all contaminated clothing. (P303+P361+P353)
Rinse affected areas with water [or shower].

IF INHALED : Remove person to fresh air and keep comfortable for breathing. (P304+P340)

Get medical help if you feel unwell. (P319)

Do NOT induce vomiting. (P331)

If skin irritation occurs: Get medical help. (P332+P317)

In case of fire : Use dry chemical powder, foam 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)

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Ingredients :

Chemical Name / Generic name	Composition weight %	CAS Registry No.	Hazard Class (category)	Hazard statement
Hydrocarbons, C7-C9, isoalkanes	45 ~ 55	64741-66-8 (EC. 921-728-3)	Flam. Liq. 2 Skin Irrit. 2 STOT. SE. 3 Asp. Tox. 1 Aquatic Chronic 2	H225 H315 H336 H304 H411
Titanium dioxide	5 ~ 15	13463-67-7	none	none

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 : 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

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.
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 AND PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMIT

ACGIH (2026)			
Titanium dioxide	TWA	0.2 mg/m^3	(Nanoscale particles)
		2.5 mg/m^3	(Fine particles)
OSHA PEL			
Titanium dioxide	TWA	15 mg/m^3	
DIRECTIVE 2000/39/EC		None	
Japan Society for Occupational Health (2025)			
Titanium dioxide	OEL (total dust)	2 mg/m^3	
Material manufacturer data (reference value)			
Isoparaffinic Hydrocarbon	RCP-TWA	241 ppm	

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 : Blue liquid

Odour : Minor solvent odour

pH : Not applicable

Boiling point : 90 °C

Flash point : 11 °C (closed cup)

Relative Density (at 25°C) : 0.8 ~ 1.0 (g/cm^3)

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_2

SECTION 11 TOXICOLOGICAL INFORMATION

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

[Isoparaffinic Hydrocarbon] (reference value)

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 ; single exposure : Category 3 May cause drowsiness or dizziness

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

Hazardous to the aquatic environment (acute) : Classification not possible

Hazardous to the aquatic environment (chronic) : Category 2 Toxic to aquatic life with long lasting effects

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) : UN1993

UN proper shipping name (DOT, ADR, IMDG, IATA) : FLAMMABLE LIQUID, N.O.S.
(Hydrocarbons, C7-C9, isoalkanes)

UN Classification : 3

Packing group (DOT, ADR, IMDG, IATA) : II

Marine pollutant (Y/N) : N

EmS number : F-E, S-E



SECTION 15 REGULATORY INFORMATION

< EU Information >

Regulation (EC) No 1272/2008 (CLP)

Substance name : [Hydrocarbons, C7-C9, isoalkanes]

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

< 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	:	Titanium dioxide (airborne, unbound particles of respirable size)

Refer to any other federal, state, EU, national and local regulations.

SECTION 16 OTHER INFORMATION

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.