

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 PAINT MARKER @23 : Artline 400XF Paint Marker EK-400 XF Product Name Color : (Yellow) 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 : Permanent marker ink Recommended use PAINT MARKER G 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 : 0871 200 5 006 Fax 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,	H336	: May cause drowsiness or dizziness
single exposure, Category 3 (narcotic effects)		
Hazardous to the aquatic environment,	H411	: Toxic to aquatic life with long lasting effects
chronic toxicity, Category 2		

2.2. Label elements

Signal word

Hazard pictograms

Labelling (REGULATION (EC) No 1272/2008)

:	Danger	(!)	¥2	
	Lighly flower			

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)	
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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/p	rotective clothing/eye protection/face protection.	(P280)
Wash hands thoroughly after handling.		
Use only outdoors or in a	well-ventilated area.	(P271)
Avoid release to the envi	ronment.	(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+P33
IF INHALED	: Remove victim to fresh air and keep at rest in a position comfortable	(P304+P340)
	for breathing.	
IF IN EYES	: Rinse cautiously with water for several minutes.	(P305+P351+P33
	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+P35
	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/cont	ainer to waste in accordance with	(P501)
local/regional/ nationa	l/international regulation (to be specified).	

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.	Classification (REGULATION (EC) No 1272/2008)	
	weight 76	Index	Hazard Class	Hazard statement
Isoparaffinic Hydrocarbon	40 ~ 50	90622-56-3 292-458-5	Flam.Liq. 2 Asp.Tox. 1 Skin Irrit.2 STOT.SE. 3 Aquatic Chronic 2	H225 H304 H315 H336 H411
Titanium dioxide	15 ~ 25	13463-67-7 236-675-5	none	none

SECTION 4: First aid measures

4.1. Description of firs	t 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 Unsuitable extinguishing media

: Dry chemical powder, foam or carbon dioxide

: 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 : Keep containers tightly closed and store in a cool and dry place. Keep away from heat and flame, ignition source and sunlight. areas and containers Keep out of the reach of children.

SECTION 8: Exposure controls/personal protection

	8.1. Control parameters				
DIRECTIVE 2000/39/EC		Not listed	Not listed		
	DIRECTIVE 2006/15/EC	Not listed			
	DIRECTIVE 2009/161/EU	Not listed			
	EH40/2005 Workplace exposure lim	nits			
	Titanium dioxide	TWA	10 mg/m ³		
	ACGIH (2013)				
	Titanium dioxide	TWA	10 mg/m ³		
	8.2. Exposure controls				
	Personal protective equipment				
	Respiratory Protection : Use with	local exhaust ventil	ation, when in long use.		
	Avoid brea	thing vapours. Wear	mask to prevent organic gas, if necessary.		
	Hand Protection : Avoid contained	act with hands. Wea	r safety gloves, if necessary.		
Eye Protection : Avoid contact with		act with eyes. Wear	safety glasses, if necessary.		
	Skin Protection : Avoid skin	contact. Wear perso	onal protection apron,boots,if necessary.		
	Environmental exposure controls				
	General advice : Prevent pro	oduct from entering	drains.		
Prevent further le		rther leakage or spill	age if safe to do so.		
	If the produ	ict contaminates rive	taminates rivers and lakes or drains inform respective authoritie		

If the product contaminates rivers and lakes or drains inform respective authorities.

SECTION 9: Physical and chemical properties

9.1 Information on basic physica	al and chemical properties
Appearance	: yellow liquid

11	, ,
Odour	: minor solvent odour
рН	: Not applicable
Boiling point	: No data available
Flash point	: 11 °C (closed cup)
Relative Density (at 25 °C)	$: 0.9 \sim 1.1 ~ (g/cm^3)$
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 toxicologica	al effects			
Acute toxicity : LD/LC50 values that are			for classification	
	[Isoparaffinic Hyd	lrocarbon]		
	Oral-rat	LD50	>5,000mg/kg	
	Inhalation-rat	LC50	21 mg/l/4H	
	Dermal-rabbit	LD50	>2,000mg/kg	
Aspiration toxicity, Category 1	: Category 1 May be fatal if swallowed and enters airw			
Skin corrosion / irritation	: Category 2	Causes skin irritation.		
Specific target organ toxicity single exposure	: Category 3	May cause dro	wsiness or dizziness.	
Carcinogenicity	: Titanium dioxide has been classified by the IARC as			
	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 methodsDisposal 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 · Label	: 3 (Flammable liquids.) 3
14.4. Packing group	DOT, ADR, IMDG, IATA	: 11
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 (P)	
Substance name	: [Isoparaffinic Hydrocarbon]	
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, Categor	y 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(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.