

Product Name

Safety Data Sheet

According to OSHA 29 CFR 1910.1200 HCS & Canada WHMIS

Revision Date : 26.02.2014

Color : (Light blue)

Artline

Xstamper

(P273)

SECTION 1: Product and Company Identification 1.1. Product identifier

1.2. Recommended use of the chemical and restrictions on use

: Jiffy Artline Paint Marker EK-400

Recommended use : Permanent marker ink

1.3. Details of the supplier of the safety data sheet

Supplier	Company Name Address Telephone Fax Contact (e-mail)	 Jiffco International Ltd. 835 - West 3rd Street North Vancouver, BC V7P 3K7 Canada 604-980-2685 604-980-8549 <u>sales@jiffco.net</u>
Manufacturer	Company Name Address Telephone Fax Contact (e-mail)	 Shachihata Inc. 4-69,Amazuka-cho,Nishi-ku,Nagoya City,451-0021,Japan +81-52-521-3600 +81-52-521-3899 chem-analysis@ngy.shachihata.co.jp

1.4. Emergency telephone number

Telephone : 604-657-9822

she

SECTION 2: Hazard(s) identification

United States (US) : According to OSHA 29 CFR 1910.1200 HCS 2012				
2.1.1 Classification of the substance or mixture				
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	H336	: May cause drowsiness or dizziness		
Hazardous to the aquatic environment,	H411	: Toxic to aquatic life with long lasting effects		
chronic toxicity, Category 2				

2.1.2 Label elements Hazard pictograms

	\vee \vee \vee \vee		
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. (P2			
Take precautionary measures against static discharge.			
Avoid breathing dust/fume/gas/mist/vapours/spray.			
Wear protective gloves/protective clothing/eye protection/face protection.			
Wash hands thoroughly after handling.			
Use only outdoors or in a well-ventilated area. (P27			

Avoid release to the environment.

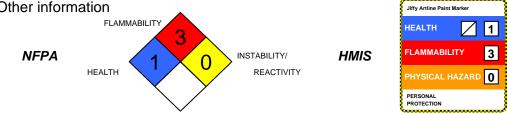
[ANSI Z400.1/Z129.1-2010][Shachihata Inc.] [Jiffy EK-400(iso)_light blue_d] 2/6

[Response]	
	n. (P370+P378)
In case of fire : Use dry chemical powder, form or carbon dioxide for extinction 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 comf for breathing.	ortable (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 r	insing.
If eye irritation persists : Get medical advice/attention.	(P337+P313)
IF ON SKIN (or hair) : Remove/Take off immediately all contaminated clothing	J. (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	(P501)
local/regional/ national/international regulation (to be specified).	
2.1.3 Other hazards	
Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standa	ard),
this product is considered hazardous.	
Canada : According to WHMIS	
2.2.1 Classification of the substance or mixture Class B2 : Flammable Liquids	
2.2.2 Label elements	

2.2.3 Other hazards

In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS)

2.3 Other information



SECTION 3: Composition/information on ingredients

Substance/Mixture : M Ingredients :	ixture			
Chemical Name /	Composition	CAS	Classification (C	SHA HCS 2012)
Generic name	weight %	Registry No.	Hazard Class	Hazard statement
Isoparaffinic Hydrocarbon	45 ~ 55	64741-66-8	Flam.Liq. 2 Asp. Tox. 1 Skin Irrit.2 STOT.SE. 3 Aquatic Chronic 2	H225 H304 H315 H336 H411
Titanium dioxide	5 ~ 15	13463-67-7	none	none
Organic pigment	1 ~ 10	Confidential	none	none
Synthetic resin	30 ~ 40	Confidential	none	none
total	100			

SECTION 4: First-aid measures

4.1. Description of fir	st 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.
Note to Physicians :	

All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media		
Suitable extinguishing media	: Dry chemical powder, foam or carbon dioxide	ŧ
Unsuitable extinguishing media	: Water jet	

5.2. Special hazards arising from the substance or mixtureFor 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. Sh	out 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 ACGIH (2013) Titanium dioxide [ANSI Z400.1/Z129.1-2010][Shachihata Inc.] [Jiffy EK-400(iso)_light blue_d] 4/6

OSHA PEL			
Titanium dioxide	TWA	15 mg/m ³	
Canada Ontario Prov	incial		
Titanium dioxide	TWA	10 mg/m ³	
Canada Quebec Prov	vincial		
Titanium dioxide	TWA	10 mg/m ³	
8.2. Exposure controls			
Personal protective equipm	ent		
Respiratory Protection			
	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 co	ntrols		
General advice	: Prevent product from entering drains.		
	Prevent further leakage of	or spillage if safe to do so.	
	-	tes rivers and lakes or drains inform respective authorities.	

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties				
Appearance	: light blue liquid			
Odor	: minor solvent odor			
рН	: Not applicable			
Boiling point	: No data available			
Flash point	: 51.8 °F (11 °C) (closed cup)			
Relative Density (at 77 °F , 25 °C)	: 0.8 ~ 1.0 (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. Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

- 10.3. Chemical stability
- The product is stable.
- 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				
	[Isoparaffinic Hydrocarbon]			
	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 s	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 listed by IARC, ACGIH, OSHA or NTP.			

[ANSI Z400.1/Z129.1-2010][Shachihata Inc.] [Jiffy EK-400(iso)_light blue_d] 5/6

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), OSHA (Occupational Safety and Health Administration), NTP (National Toxicology Program, USA) in the classification of suspected carcinogenic to humans has not been done. Therefore, we could not classify the carcinogenicity of GHS from that there is no sufficient data.

ECTION 12: Ecological info		in life with lange landing affects	
12.1. Ecotoxicity 12.2. Persistence and degradability	: Category 2 Toxic to aquati	ic life with long lasting effects	
12.3. Bioaccumulative potential	: No data available		
12.4. Mobility in soil	: No data available		
12.5. Other adverse effects	: No known significant effect	: No known significant effects or critical hazards.	
SECTION 13: Disposal consid	derations		
13.1. Waste treatment methods Disposal must be made according t Comply with all Federal, State, and	o official regulations. Local regulations regarding disposal.		
Disposal must be made according t Comply with all Federal, State, and	Local regulations regarding disposal. nd, any water course or sewage system.		
Disposal must be made according t Comply with all Federal, State, and Do not allow product to reach grour	Local regulations regarding disposal. nd, any water course or sewage system.	: UN1210	
Disposal must be made according t Comply with all Federal, State, and Do not allow product to reach grour SECTION 14: Transport infor	Local regulations regarding disposal. nd, any water course or sewage system. mation	: UN1210 : PRINTING INK,flammable	
Disposal must be made according to Comply with all Federal, State, and Do not allow product to reach grour SECTION 14: Transport information 14.1. UN number	Local regulations regarding disposal. nd, any water course or sewage system. mation DOT, TDG, IMO / IMDG, IATA / ICAO		

: Not applicable.

- 14.5. Environmental hazardsMarine pollutant: No14.6. Special precautions for userEMS Number: F-E,S-D
- 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

< USA Information > OSHA STATUS : This product is hazardous under 29 CFR 1910.1200. : All components of this product are listed in the TSCA Inventory. TSCA inventory TSCA Hazard Communication Program (40 CFR Part 721) (SNUR) : not Listed EPCRA Section 302 Extremely Hazardous Substances (EHS) : not Listed **EPCRA Section 313 Toxic Chemicals** : not Listed **CERCLA Hazardous Substances** : not Listed CAA Section 112(r) List of Substances for Accidental Release Prevention : not Listed California Proposition 65 : not Listed < Canada Information > This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

Canada inventory : All components of this product are listed in the DSL/NDSL Inventory.

WHMIS Ingredient Disclosure List (SOR/88-64) : not Listed

(WHMIS : Canadian Workplace Hazardous Material Information System)

SECTION 16: Other information, including date of preparation or last revision

Last Revision Date:26.02.2014Preparation Date:02.04.2007



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.