

Safety Data Sheet

According to OSHA 29 CFR 1910.1200 HCS & Canada WHMIS

Revision Date : 26.02.2014 SECTION 1: Product and Company Identification 1.1. Product identifier Product Name : Jiffy Artline Paint Marker EK-400 Color : (Brown) 1.2. Recommended use of the chemical and restrictions on use Recommended use : Permanent marker ink 1.3. Details of the supplier of the safety data sheet Supplier **Company Name** : Jiffco International Ltd. Address : 835 - West 3rd Street North Vancouver , BC V7P 3K7 Canada Telephone : 604-980-2685 : 604-980-8549 Fax : sales@jiffco.net Contact (e-mail) Manufacturer **Company Name** : Shachihata Inc. Address : 4-69, Amazuka-cho, Nishi-ku, Nagoya City, 451-0021, Japan

1.4. Emergency telephone number

Fax

Telephone : 604-657-9822

SECTION 2: Hazard(s) identification

Telephone

Contact (e-mail)

United States (US) : According to OSHA 29 CFR 1910.1200 HCS 2012 2.1.1 Classification of the substance or mixture

: +81-52-521-3600

: +81-52-521-3899

Flammable liqui	ds, Category 2	H225	:	Highly flammable liquid and vapour
Aspiration toxici	ty, Category 1	H304	:	May be fatal if swallowed and enters airways
Skin corrosion /	irritation, Category 2	H315	:	Causes skin irritation
Specific target of	organ toxicity - single exposure, Category 3	H336	:	May cause drowsiness or dizziness
Hazardous to th	e aquatic environment,	H411	:	Toxic to aquatic life with long lasting effects
chronic toxic	ity, Category 2			

: chem-analysis@ngy.shachihata.co.jp

- 2.1.2 Label elements
- Hazard pictograms

		$\overline{}$			
Signal word	:	Danger			
Hazard statement	:	Highly flamm	able liquid and vap	oour	(H225)
		May be fatal i	if swallowed and e	enters airways	(H304)
		Causes skin i	irritation		(H315)
		May cause dr	rowsiness or dizzir	ness	(H336)
		Toxic to aqua	atic life with long la	sting effects	(H411)
Precautionary stateme	ent				
[Prevention]					
Keep away from he	at/spai	rks/open flames	s/hot surfaces No	o smoking.	(P210)
Take precautionary	measu	ures against sta	itic discharge.		(P243)
Avoid breathing dus	t/fume	/gas/mist/vapou	urs/spray.		(P261)
Wear protective glo	ves/pro	otective clothing	g/eye protection/fa	ce protection.	(P280)
Wash hands thorou	ghly af	ter handling.			(P264)
Use only outdoors o	or in a v	well-ventilated a	area.		(P271)
Avoid release to the	enviro	onment.			(P273)



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

[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	(P304+P340)
	for breathing.	
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 vomiti	ng.	(P331)
Collect spillage.		(P391)
[Storage]		
Store in a well-ventilat	ed place. Keep container tightly closed.	(P403+P233)
[Disposal]		
Dispose of contents/co	ontainer to waste in accordance with	(P501)
local/regional/ nation	onal/international regulation (to be specified).	
2.1.3 Other hazards		
Under United States F	Regulations (29 CFR 1910.1200 - Hazard Communication Standard),	
this product is conside	red hazardous.	
Canada : According	to WHMIS	
2.2.1 Classification of the		

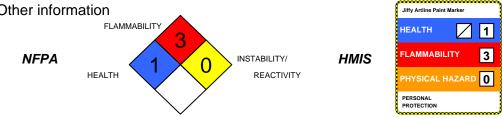
Class B2 : Flammable Liquids

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 :	lixture			
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	1 ~ 10	13463-67-7	none	none
Organic pigment	1 ~ 10	Confidential	none	none
Synthetic resin	35 ~ 45	Confidential	none	none
total	100			

SECTION 4: First-aid measures

4.1. Description of fi	rst 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
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 procedutions						

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 sto	prage, including any incompatibilities
Requirements for storage	· Keep containers tightly closed and store in a cool and dry place

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	TWA	10 mg/m ³
OSHA PEL		
Titanium dioxide	TWA	15 mg/m ³

Canada Ontario Provi	ncial				
Titanium dioxide	TWA	10 mg/m ³			
Canada Quebec Prov	incial				
Titanium dioxide	TWA	10 mg/m ³			
8.2. Exposure controls					
Personal protective equipme	ent				
Respiratory Protection	: Use with local exhaust ve	entilation, when in long use.			
	Avoid breathing vapours	. Wear mask to prevent organic gas, if necessary.			
Hand Protection	: Avoid contact with hands	Avoid contact with hands. Wear safety gloves, if necessary.			
Eye Protection	: Avoid contact with eyes.	Avoid contact with eyes. Wear safety glasses, if necessary.			
Skin Protection	: Avoid skin contact. Wear	r personal protection apron,boots,if necessary.			
Environmental exposure cor	ntrols				
General advice	: Prevent product from ent	tering drains.			
	Prevent further leakage	or spillage if safe to do so.			
	If the product contaminat	tes rivers and lakes or drains inform respective authorities.			

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and ch Appearance	emical properties : brown liquid
Odor	: minor solvent odor
рH	: Not applicable
Boiling point	: No data available
Flash point	: 51.8 °F (11 °C) (closed cup)
Relative Density (at 77 °F , 25 °C)	$: 0.8 \sim 1.0 ~ (g/cm^3)$
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 Hyd	rocarbon]				
	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 airways.			
Skin corrosion / irritation	: Category 2	Causes skin irr	itation.			
Specific target organ toxicity single exposure	: Category 3	May cause dro	wsiness or dizziness.			
Carcinogenicity			ed by the IARC as Group 2B. RC, ACGIH, OSHA 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), 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.

12.1. Ecotoxicity	: Category 2 Toxic to aquatic life with long lasting effects
12.2. Persistence and degradabilit	ty : No data available
12.3. Bioaccumulative potential	: No data available
12.4. Mobility in soil	: No data available
12.5. Other adverse effects	: No known significant effects or critical hazards.
Disposal must be made according	-
Disposal must be made according Comply with all Federal, State, and Do not allow product to reach grou	d Local regulations regarding disposal. Ind, any water course or sewage system.
Disposal must be made according Comply with all Federal, State, and Do not allow product to reach grou	d Local regulations regarding disposal. Ind, any water course or sewage system.
Comply with all Federal, State, and	d Local regulations regarding disposal. Ind, any water course or sewage system.

14.4. Packing groupDOT, TDG, IMO / IMDG, IATA / ICAO: II14.5. Environmental hazardsMarine pollutant: No14.6. Special precautions for userEMS Number: F-E,S-D14.7. Transport in bulk according to Annex II of: Not applicable.

MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

< USA Information >	
OSHA STATUS : This product is hazardous under 29 CFR 1910.1200.	
TSCA inventory : All components of this product are listed in the 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 Reg	ulations (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.