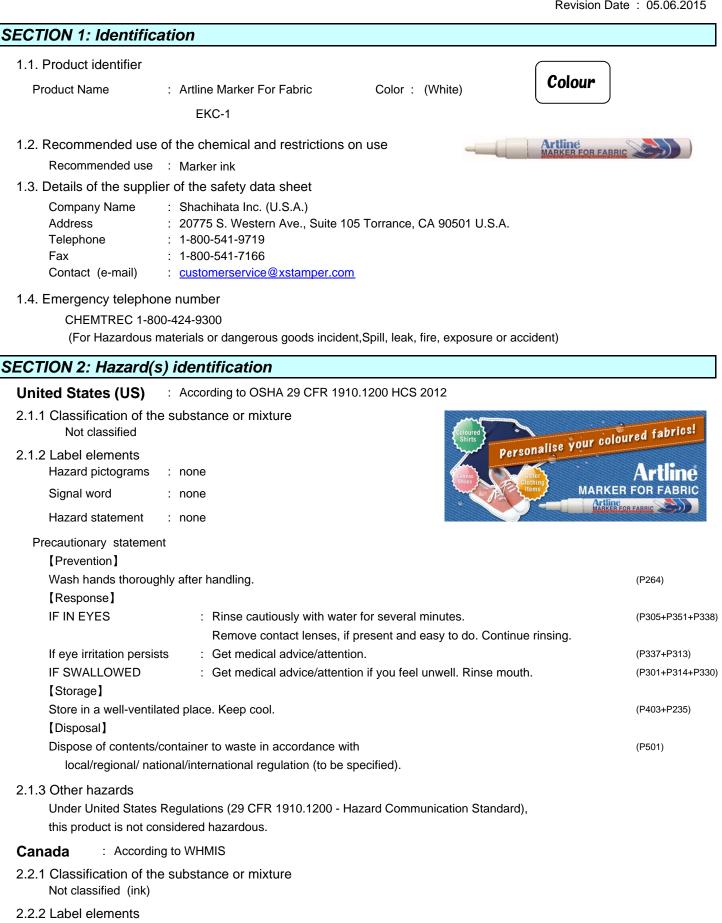


Safety Data Sheet



According to OSHA 29 CFR 1910.1200 HCS & Canada WHMIS

Revision Date : 05.06.2015



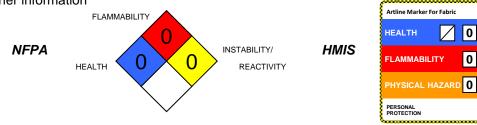
none

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2.2.3 Other hazards

In Canada, the product mentioned above is not considered hazardous under the Workplace Hazardous Materials Information System (WHMIS)

2.3 Other information



SECTION 3: Composition/information on ingredients

Ingredients

Chemical Name /	Composition	CAS	Classification (OSHA HCS 2012)		
Generic name	weight %	Registry No.	Hazard Class	Hazard statement	
Water	35 ~ 45	7732-18-5 n	none	none	
Synthetic resin	10 ~ 20 Confidential 25 ~ 35 13463-67-7	Confidential	none	none	
Titanium oxide		13463-67-7	none	none	
Others	10 ~ 20	Confidential	none	none	
total	100				

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.
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	: none

- 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 Evacuate personnel to safe area. Sho		procedures		
No Flares, smoking or flame in area.	-	Ensure adequate ventilation.		
6.2. Environmental precautions				
Do not throw the leakage thing directly	Do not throw the leakage thing directly into environment			
6.3. Methods and material for contair	nment and cleaning up			
In case of a small spill, remove by ab	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 stor	age			
7.1. Precautions for safe handling				
Advice on safe handling : Use	with adequate ventilation.			
Avo	id contact with skin, eyes and o	clothing.		
Obt	ain special instructions before	use.		
Do	not handle until all safety preca	autions 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	TWA	10 mg/m ³	
OSHA PEL			
Titanium dioxide	TWA	15 mg/m ³	
Canada Ontario Provincia			
Titanium dioxide	TWA	10 mg/m ³	
Canada Quebec Provinci		_	
Titanium dioxide	TWA	10 mg/m ³	
8.2. Exposure controls Personal protective equipment			
Respiratory Protection : Avoid breathing vapours. Wear mask to prevent organic gas, if necessary.			
Hand Protection	Avoid contact with hands. Wear safety gloves, if necessary.Avoid contact with eyes. Wear safety glasses, if necessary.		
Eye Protection			
Skin Protection	: Avoid skin contact. Wear perso	nal 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 rive	ers and lakes or drains inform respective authorities.	

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and o Appearance	chemical properties : white liquid
Odor	: odorless
рН	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable (closed cup)
Relative Density (at 77 °F , 25 °C)	: 1.4 ~ 1.6 (g/cm ³)
Solubility in Water	: soluble

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	: No data available
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

<u> </u>	
12.1. Ecotoxicity	: No data available
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. Other adverse effects	: No known significant effects or critical hazards.

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, TDG, IMO / IMDG, IATA / ICAO	:	none
14.2. UN proper shipping name	DOT, TDG, IMO / IMDG, IATA / ICAO	:	none
14.3. Transport hazard class(es)	DOT, TDG, IMO / IMDG, IATA / ICAO	:	none
14.4. Packing group	DOT, TDG, IMO / IMDG, IATA / ICAO	:	none
14.5. Environmental hazards	Marine pollutant	:	No
14.6. Special precautions for user	EMS Number	:	none
14.7. Transport in bulk according to MARPOL 73/78 and the IBC (:	Not applicable.

SECTION 15: Regulatory information

< USA Information >	
OSHA STATUS : This product is not hazardous under 29 CFR 1910.1	200.
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

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California Proposition 65

: not Listed

< Canada Information >

This product does not have 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.

WHMIS Ingredient Disclosure List (SOR/88-64)

(WHMIS : Canadian Workplace Hazardous Material Information System)

: none

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

Last Revision Date Preparation Date

05.06.2015



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.