〔ANSI Z400.1/Z129.1-2010〕〔Shachihata Inc.〕〔EPP_F-orange_f〕 1/5

22129-8104

Shachihata

Artline® Xstamper

Safety Data Sheet

According to OSHA 29 CFR 1910.1200 HCS & Canada WHMIS

Revision Date : February 6, 2020

SECTION 1: Identification

1.1. Product identifier

Product Name : Artline POSTER MARKER Color : (Fluoro.orange)

EPP-4, EPP-6, EPP-12, EPP-20, EPP-30

1.2. Recommended use of the chemical and restrictions on use

Recommended use : Marker ink

1.3. Details of the supplier of the safety data sheet

Company Name : Shachihata Inc. (U.S.A.)
Address : 20775 S. Western Ave., Suite 105 Torrance, CA 90501 U.S.A.
Telephone : 1-800-541-9719
Fax : 1-800-541-7166
Contact (e-mail) : customerservice@xstamper.com

1.4. Emergency telephone number

CHEMTREC 1-800-424-9300

(For Hazardous materials or dangerous goods incident, spill, leak, fire, exposure or accident)

SECTION 2: Hazard(s) identification

According to OSHA 29 CFR 1910.1200 HCS & Hazardous Product Regulation (WHMIS 2015)

2.1.1 Classification of the substance or mixture

Flammable liquids, Category 3 H226 : Flammable liquid and vapour

2.1.2 Label elements

Hazard pictograms :

Note:
This product does not need to be considered as flammable liquids for Recommendations on the TRANSPORT OF DANGEROUS GOODS, UNITED NATIONS.
Refer to section 9 and 14.

Signal word : Warning

Hazard statement : Flammable liquid and vapour (H226)

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)
Wash hands thoroughly after handling. (P264)

【Response】

In case of fire : Use dry chemical powder, foam or carbon dioxide to extinguish. (P370+P378)
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 and attention. (P337+P313)
IF ON SKIN (or hair) : Take off immediately all contaminated clothing. Rinse skin with water. (P303+P361+P353)

【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)

〔ANSI Z400.1/Z129.1-2010〕〔Shachihata Inc.〕〔EPP_F-orange_f〕 2/5

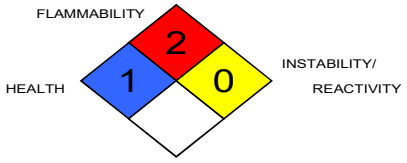
2.1.3 Other hazards

Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS2015)

2.3 Other information

NFPA



HMIS

SECTION 3: Composition/information on ingredients

Substance / Mixture : Mixture

Ingredients :

Chemical Name / Generic name	Composition weight %	CAS Registry No.	Classification (OSHA HCS 2012)	
			Hazard Class	Hazard statement
Ethanol	1 ~ 5	64-17-5	Flam. Liq. 2	H225
Water	55 ~ 65	7732-18-5	none	none
Synthetic resin	20 ~ 30	Confidential	none	none
Titanium dioxide	5 ~ 15	13463-67-7	none	none
Others	1 ~ 5	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.

〔ANSI Z400.1/Z129.1-2010〕〔Shachihata Inc.〕〔EPP_F-orange_f〕 3/5

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, 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 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 (2019)

Ethanol	STEL	1,000 ppm
Titanium dioxide	TWA	10 mg/m^3

OSHA PEL

Ethanol	TWA	1,000 ppm
Titanium dioxide	TWA	15 mg/m^3

Canada Ontario Provincial

Ethanol	STEL	1,000 ppm
Titanium dioxide	TWA	10 mg/m^3

Canada Quebec Provincial

Ethanol	TWA	1,000 ppm
Titanium dioxide	TWA	10 mg/m^3

8.2. Exposure controls

Personal protective equipment

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.

Environmental exposure controls

General advice	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

〔ANSI Z400.1/Z129.1-2010〕〔Shachihata Inc.〕〔EPP_F-orange_f〕 4/5

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: Orange liquid	
Odor	: None	
pH	: Not applicable	
Boiling point	: 172.4°F (78°C) ~ 212°F (100°C)	
Flash point	: 112.2°F (44°C) (closed cup)	Not sustained combustibility ; Refer to section14
Relative Density (at 77°F, 25°C)	: 1.0 ~ 1.2 (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, CO_2

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

Oral-rat	LD50	>5,000 mg/kg
Inhalation-rat	LC50	>20 mg/L/4h

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

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.

〔ANSI Z400.1/Z129.1-2010〕〔Shachihata Inc.〕〔EPP_F-orange_f〕 5/5

SECTION 14: Transport information

14.1. UN number	(DOT, ADR, IMDG, IATA)	:	None
14.2. UN proper shipping name	(DOT, ADR, IMDG, IATA)	:	None
14.3. Transport hazard class(es)	(DOT, ADR, IMDG, IATA)	:	None
14.4. Packing group	(DOT, ADR, IMDG, IATA)	:	None
14.5. Environmental hazards	Marine pollutant	:	N
14.6. Special precautions for user	EMS Number	:	None

This product has passed the SUSTAINED COMBUSTIBILITY TEST prescribed in the UN Manual of Tests and Criteria, Part Ⅲ, subsection 32.5.2. Liquids with a flash point of more than 35°C which do not sustain combustion need not be considered as flammable liquids. Refer to Recommendations on the TRANSPORT OF DANGEROUS GOODS, UNITED NATIONS - Seventeenth revised edition (ST/SG/AC.10/1/Rev.17) CHAPTER 2.3 CLASS 3 - FLAMMABLE LIQUIDS (see 2.3.1.2 and 2.3.1.3), IATA Dangerous Goods Regulations Section 3.3.1.3 and IMDG Code Section 2.3.1.3.

SECTION 15: Regulatory information

< 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)

< Canada Information >

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

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

Last Revision Date : February 6, 2020

Preparation Date : October 3, 2013

EU RoHS (Directive 2011/65/EU)

EU ELV (DIRECTIVE 2000/53/EC)

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.

〔ANSI Z400.1/Z129.1-2010〕〔Shachihata Inc.〕〔EPP_F-pink_f〕 1/5

Shachihata

Safety Data Sheet

Artline Xstamper

According to OSHA 29 CFR 1910.1200 HCS & Canada WHMIS

Revision Date : February 6, 2020

SECTION 1: Identification

1.1. Product identifier

Product Name : Artline POSTER MARKER Color : (Fluoro.pink)

EPP-4, EPP-6, EPP-12, EPP-20, EPP-30

1.2. Recommended use of the chemical and restrictions on use

Recommended use : Marker ink

1.3. Details of the supplier of the safety data sheet

Company Name : Shachihata Inc. (U.S.A.)
Address : 20775 S. Western Ave., Suite 105 Torrance, CA 90501 U.S.A.
Telephone : 1-800-541-9719
Fax : 1-800-541-7166
Contact (e-mail) : customerservice@xstamper.com

1.4. Emergency telephone number

CHEMTREC 1-800-424-9300

(For Hazardous materials or dangerous goods incident, spill, leak, fire, exposure or accident)

SECTION 2: Hazard(s) identification

According to OSHA 29 CFR 1910.1200 HCS & Hazardous Product Regulation (WHMIS 2015)

2.1.1 Classification of the substance or mixture

Flammable liquids, Category 3 H226 : Flammable liquid and vapour

2.1.2 Label elements

Hazard pictograms :

Note:
This product does not need to be considered as flammable liquids for Recommendations on the TRANSPORT OF DANGEROUS GOODS, UNITED NATIONS.
Refer to section 9 and 14.

Signal word : Warning

Hazard statement : Flammable liquid and vapour (H226)

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)
Wash hands thoroughly after handling. (P264)

【Response】

In case of fire : Use dry chemical powder, foam or carbon dioxide to extinguish. (P370+P378)
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 and attention. (P337+P313)
IF ON SKIN (or hair) : Take off immediately all contaminated clothing. Rinse skin with water. (P303+P361+P353)

【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)

〔ANSI Z400.1/Z129.1-2010〕〔Shachihata Inc.〕〔EPP_F-pink_f〕 2/5

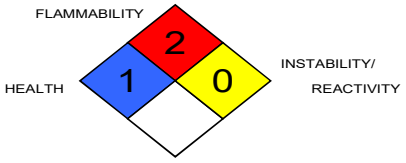
2.1.3 Other hazards

Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS2015)

2.3 Other information

NFPA



HMIS

SECTION 3: Composition/information on ingredients

Substance / Mixture : Mixture

Ingredients :

Chemical Name / Generic name	Composition weight %	CAS Registry No.	Classification (OSHA HCS 2012)	
			Hazard Class	Hazard statement
Ethanol	1 ~ 5	64-17-5	Flam. Liq. 2	H225
Water	55 ~ 65	7732-18-5	none	none
Synthetic resin	20 ~ 30	Confidential	none	none
Titanium dioxide	5 ~ 15	13463-67-7	none	none
Others	1 ~ 5	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.

〔ANSI Z400.1/Z129.1-2010〕〔Shachihata Inc.〕〔EPP_F-pink_f〕 3/5

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, 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 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 (2019)

Ethanol	STEL	1,000 ppm
Titanium dioxide	TWA	10 mg/m^3

OSHA PEL

Ethanol	TWA	1,000 ppm
Titanium dioxide	TWA	15 mg/m^3

Canada Ontario Provincial

Ethanol	STEL	1,000 ppm
Titanium dioxide	TWA	10 mg/m^3

Canada Quebec Provincial

Ethanol	TWA	1,000 ppm
Titanium dioxide	TWA	10 mg/m^3

8.2. Exposure controls

Personal protective equipment

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.

Environmental exposure controls

General advice	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

〔ANSI Z400.1/Z129.1-2010〕〔Shachihata Inc.〕〔EPP_F-pink_f〕 4/5

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: Pink liquid	
Odor	: None	
pH	: Not applicable	
Boiling point	: 172.4°F (78°C) ~ 212°F (100°C)	
Flash point	: 112.2°F (44°C) (closed cup)	Not sustained combustibility ; Refer to section14
Relative Density (at 77°F, 25°C)	: 1.0 ~ 1.2 (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, CO_2

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

Oral-rat	LD50	>5,000 mg/kg
Inhalation-rat	LC50	>20 mg/L/4h

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

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.

〔ANSI Z400.1/Z129.1-2010〕〔Shachihata Inc.〕〔EPP_F-pink_f〕 5/5

SECTION 14: Transport information

14.1. UN number	(DOT, ADR, IMDG, IATA)	:	None
14.2. UN proper shipping name	(DOT, ADR, IMDG, IATA)	:	None
14.3. Transport hazard class(es)	(DOT, ADR, IMDG, IATA)	:	None
14.4. Packing group	(DOT, ADR, IMDG, IATA)	:	None
14.5. Environmental hazards	Marine pollutant	:	N
14.6. Special precautions for user	EMS Number	:	None

This product has passed the SUSTAINED COMBUSTIBILITY TEST prescribed in the UN Manual of Tests and Criteria, Part Ⅲ, subsection 32.5.2. Liquids with a flash point of more than 35°C which do not sustain combustion need not be considered as flammable liquids. Refer to Recommendations on the TRANSPORT OF DANGEROUS GOODS, UNITED NATIONS - Seventeenth revised edition (ST/SG/AC.10/1/Rev.17) CHAPTER 2.3 CLASS 3 - FLAMMABLE LIQUIDS (see 2.3.1.2 and 2.3.1.3), IATA Dangerous Goods Regulations Section 3.3.1.3 and IMDG Code Section 2.3.1.3.

SECTION 15: Regulatory information

< 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)

< Canada Information >

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

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

Last Revision Date : February 6, 2020

Preparation Date : October 3, 2013

EU RoHS (Directive 2011/65/EU)

EU ELV (DIRECTIVE 2000/53/EC)

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.

〔ANSI Z400.1/Z129.1-2010〕〔Shachihata Inc.〕〔EPP_F-yellow_f〕 1/5

Shachihata

Artline® Xstamper

Safety Data Sheet

According to OSHA 29 CFR 1910.1200 HCS & Canada WHMIS

Revision Date : February 6, 2020

SECTION 1: Identification

1.1. Product identifier

Product Name : Artline POSTER MARKER Color : (Fluoro.yellow)

EPP-4, EPP-6, EPP-12, EPP-20, EPP-30

1.2. Recommended use of the chemical and restrictions on use

Recommended use : Marker ink

1.3. Details of the supplier of the safety data sheet

Company Name : Shachihata Inc. (U.S.A.)
Address : 20775 S. Western Ave., Suite 105 Torrance, CA 90501 U.S.A.
Telephone : 1-800-541-9719
Fax : 1-800-541-7166
Contact (e-mail) : customerservice@xstamper.com

1.4. Emergency telephone number

CHEMTREC 1-800-424-9300
(For Hazardous materials or dangerous goods incident, spill, leak, fire, exposure or accident)

SECTION 2: Hazard(s) identification

According to OSHA 29 CFR 1910.1200 HCS & Hazardous Product Regulation (WHMIS 2015)

2.1.1 Classification of the substance or mixture

Flammable liquids, Category 3 H226 : Flammable liquid and vapour

2.1.2 Label elements

Hazard pictograms :

Note:
This product does not need to be considered as flammable liquids for Recommendations on the TRANSPORT OF DANGEROUS GOODS, UNITED NATIONS.
Refer to section 9 and 14.

Signal word : Warning

Hazard statement : Flammable liquid and vapour (H226)

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)
Wash hands thoroughly after handling. (P264)
【Response】
In case of fire : Use dry chemical powder, foam or carbon dioxide to extinguish. (P370+P378)
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 and attention. (P337+P313)
IF ON SKIN (or hair) : Take off immediately all contaminated clothing. Rinse skin with water. (P303+P361+P353)
【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)

〔ANSI Z400.1/Z129.1-2010〕〔Shachihata Inc.〕〔EPP_F-yellow_f〕 2/5

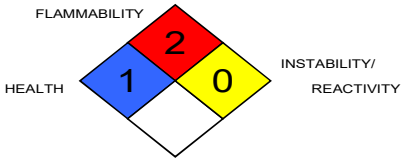
2.1.3 Other hazards

Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS2015)

2.3 Other information

NFPA



HMIS

SECTION 3: Composition/information on ingredients

Substance / Mixture : Mixture

Ingredients :

Chemical Name / Generic name	Composition weight %	CAS Registry No.	Classification (OSHA HCS 2012)	
			Hazard Class	Hazard statement
Ethanol	1 ~ 5	64-17-5	Flam. Liq. 2	H225
Water	55 ~ 65	7732-18-5	none	none
Synthetic resin	20 ~ 30	Confidential	none	none
Titanium dioxide	5 ~ 15	13463-67-7	none	none
Others	1 ~ 5	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.

〔ANSI Z400.1/Z129.1-2010〕〔Shachihata Inc.〕〔EPP_F-yellow_f〕 3/5

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, 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 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 (2019)

Ethanol	STEL	1,000 ppm
Titanium dioxide	TWA	10 mg/m^3

OSHA PEL

Ethanol	TWA	1,000 ppm
Titanium dioxide	TWA	15 mg/m^3

Canada Ontario Provincial

Ethanol	STEL	1,000 ppm
Titanium dioxide	TWA	10 mg/m^3

Canada Quebec Provincial

Ethanol	TWA	1,000 ppm
Titanium dioxide	TWA	10 mg/m^3

8.2. Exposure controls

Personal protective equipment

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.

Environmental exposure controls

General advice	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

〔ANSI Z400.1/Z129.1-2010〕〔Shachihata Inc.〕〔EPP_F-yellow_f〕 4/5

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: Yellow liquid	
Odor	: None	
pH	: Not applicable	
Boiling point	: 172.4°F (78°C) ~ 212°F (100°C)	
Flash point	: 112.2°F (44°C) (closed cup)	Not sustained combustibility ; Refer to section14
Relative Density (at 77°F, 25°C)	: 1.0 ~ 1.2 (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, CO_2

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

Oral-rat	LD50	>5,000 mg/kg
Inhalation-rat	LC50	>20 mg/L/4h

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

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.

〔ANSI Z400.1/Z129.1-2010〕〔Shachihata Inc.〕〔EPP_F-yellow_f〕 5/5

SECTION 14: Transport information

14.1. UN number	(DOT, ADR, IMDG, IATA)	:	None
14.2. UN proper shipping name	(DOT, ADR, IMDG, IATA)	:	None
14.3. Transport hazard class(es)	(DOT, ADR, IMDG, IATA)	:	None
14.4. Packing group	(DOT, ADR, IMDG, IATA)	:	None
14.5. Environmental hazards	Marine pollutant	:	N
14.6. Special precautions for user	EMS Number	:	None

This product has passed the SUSTAINED COMBUSTIBILITY TEST prescribed in the UN Manual of Tests and Criteria, Part Ⅲ, subsection 32.5.2. Liquids with a flash point of more than 35°C which do not sustain combustion need not be considered as flammable liquids. Refer to Recommendations on the TRANSPORT OF DANGEROUS GOODS, UNITED NATIONS - Seventeenth revised edition (ST/SG/AC.10/1/Rev.17) CHAPTER 2.3 CLASS 3 - FLAMMABLE LIQUIDS (see 2.3.1.2 and 2.3.1.3), IATA Dangerous Goods Regulations Section 3.3.1.3 and IMDG Code Section 2.3.1.3.

SECTION 15: Regulatory information

< 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)

< Canada Information >

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

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

Last Revision Date : February 6, 2020

Preparation Date : October 3, 2013

EU RoHS (Directive 2011/65/EU)

EU ELV (DIRECTIVE 2000/53/EC)

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.

〔ANSI Z400.1/Z129.1-2010〕〔Shachihata Inc.〕〔EPP_F-green_f〕 1/5

Shachihata

Artline® Xstamper

Safety Data Sheet

According to OSHA 29 CFR 1910.1200 HCS & Canada WHMIS

Revision Date : February 6, 2020

SECTION 1: Identification

1.1. Product identifier

Product Name : Artline POSTER MARKER Color : (Fluoro.green)

EPP-4, EPP-6, EPP-12, EPP-20, EPP-30

1.2. Recommended use of the chemical and restrictions on use

Recommended use : Marker ink

1.3. Details of the supplier of the safety data sheet

Company Name : Shachihata Inc. (U.S.A.)
Address : 20775 S. Western Ave., Suite 105 Torrance, CA 90501 U.S.A.
Telephone : 1-800-541-9719
Fax : 1-800-541-7166
Contact (e-mail) : customerservice@xstamper.com

1.4. Emergency telephone number

CHEMTREC 1-800-424-9300

(For Hazardous materials or dangerous goods incident, spill, leak, fire, exposure or accident)

SECTION 2: Hazard(s) identification

According to OSHA 29 CFR 1910.1200 HCS & Hazardous Product Regulation (WHMIS 2015)

2.1.1 Classification of the substance or mixture

Flammable liquids, Category 3 H226 : Flammable liquid and vapour

2.1.2 Label elements

Hazard pictograms :

Note:
This product does not need to be considered as flammable liquids for Recommendations on the TRANSPORT OF DANGEROUS GOODS, UNITED NATIONS.
Refer to section 9 and 14.

Signal word : Warning

Hazard statement : Flammable liquid and vapour (H226)

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)
Wash hands thoroughly after handling. (P264)

【Response】

In case of fire : Use dry chemical powder, foam or carbon dioxide to extinguish. (P370+P378)
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 and attention. (P337+P313)
IF ON SKIN (or hair) : Take off immediately all contaminated clothing. Rinse skin with water. (P303+P361+P353)

【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)

〔ANSI Z400.1/Z129.1-2010〕〔Shachihata Inc.〕〔EPP_F-green_f〕 2/5

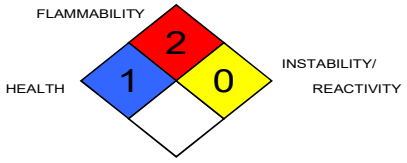
2.1.3 Other hazards

Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS2015)

2.3 Other information

NFPA



HMIS

SECTION 3: Composition/information on ingredients

Substance / Mixture : Mixture

Ingredients :

Chemical Name / Generic name	Composition weight %	CAS Registry No.	Classification (OSHA HCS 2012)	
			Hazard Class	Hazard statement
Ethanol	1 ~ 5	64-17-5	Flam. Liq. 2	H225
Water	55 ~ 65	7732-18-5	none	none
Synthetic resin	20 ~ 30	Confidential	none	none
Titanium dioxide	5 ~ 15	13463-67-7	none	none
Others	1 ~ 5	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.

〔ANSI Z400.1/Z129.1-2010〕〔Shachihata Inc.〕〔EPP_F-green_f〕 3/5

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, 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 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 (2019)

Ethanol	STEL	1,000 ppm
Titanium dioxide	TWA	10 mg/m^3

OSHA PEL

Ethanol	TWA	1,000 ppm
Titanium dioxide	TWA	15 mg/m^3

Canada Ontario Provincial

Ethanol	STEL	1,000 ppm
Titanium dioxide	TWA	10 mg/m^3

Canada Quebec Provincial

Ethanol	TWA	1,000 ppm
Titanium dioxide	TWA	10 mg/m^3

8.2. Exposure controls

Personal protective equipment

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.

Environmental exposure controls

General advice	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

〔ANSI Z400.1/Z129.1-2010〕〔Shachihata Inc.〕〔EPP_F-green_f〕 4/5

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: Green liquid	
Odor	: None	
pH	: Not applicable	
Boiling point	: 172.4°F (78°C) ~ 212°F (100°C)	
Flash point	: 112.2°F (44°C) (closed cup)	Not sustained combustibility ; Refer to section14
Relative Density (at 77°F, 25°C)	: 1.0 ~ 1.2 (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, CO_2

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

Oral-rat	LD50	>5,000 mg/kg
Inhalation-rat	LC50	>20 mg/L/4h

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

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.

〔ANSI Z400.1/Z129.1-2010〕〔Shachihata Inc.〕〔EPP_F-green_f〕 5/5

SECTION 14: Transport information

14.1. UN number	(DOT, ADR, IMDG, IATA)	:	None
14.2. UN proper shipping name	(DOT, ADR, IMDG, IATA)	:	None
14.3. Transport hazard class(es)	(DOT, ADR, IMDG, IATA)	:	None
14.4. Packing group	(DOT, ADR, IMDG, IATA)	:	None
14.5. Environmental hazards	Marine pollutant	:	N
14.6. Special precautions for user	EMS Number	:	None

This product has passed the SUSTAINED COMBUSTIBILITY TEST prescribed in the UN Manual of Tests and Criteria, Part Ⅲ, subsection 32.5.2. Liquids with a flash point of more than 35°C which do not sustain combustion need not be considered as flammable liquids. Refer to Recommendations on the TRANSPORT OF DANGEROUS GOODS, UNITED NATIONS - Seventeenth revised edition (ST/SG/AC.10/1/Rev.17) CHAPTER 2.3 CLASS 3 - FLAMMABLE LIQUIDS (see 2.3.1.2 and 2.3.1.3), IATA Dangerous Goods Regulations Section 3.3.1.3 and IMDG Code Section 2.3.1.3.

SECTION 15: Regulatory information

< 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)

< Canada Information >

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

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

Last Revision Date : February 6, 2020

Preparation Date : October 3, 2013

EU RoHS (Directive 2011/65/EU)

EU ELV (DIRECTIVE 2000/53/EC)

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.