

[ANSI Z400.1/Z129.1-2010][Shachihata Inc.] [EK-200N_orange_g] 1/5

22520-XXXX



Safety Data Sheet

According to OSHA 29 CFR 1910.1200 HCS & Canada WHMIS

Artline[®]
Xstamper

Revision Date : 13.02. 2020

SECTION 1: Identification

1.1. Product identifier

Product Name : Artline 200, 210, 220 Color : (Orange)
 EK-200N, EK-210N, EK-220N



1.2. Recommended use of the chemical and restrictions on use

Recommended use : Writing 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

Not classified

2.1.2 Label elements

Hazard pictograms : None

Signal word : None

Hazard statement : None

Precautionary statement

【Prevention】

Wash hands thoroughly after handling. (P264)

【Response】

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)

【Storage】

Store in a well-ventilated place. Keep cool. (P403+P235)

【Disposal】

Dispose of contents and container in accordance with local regulations. (P501)

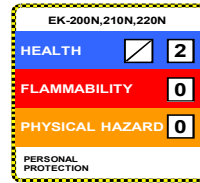
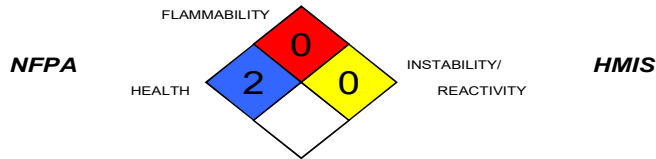
2.1.3 Other hazards

Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is not considered hazardous.

In Canada, the product mentioned above is not considered hazardous under the Workplace Hazardous Materials Information System (WHMIS2015).

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2.3 Other information

**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
Water	60 ~ 70	7732-18-5	none	none
Ethane-1,2-diol (Ethylene Glycol)	10 ~ 20	107-21-1	Acute Tox.(oral) 4	H302
2,2'-oxydiethanol	5 ~ 15	111-46-6	Acute Tox.(oral) 4	H302
Dyestuff	1 ~ 10	Confidential	none	none
Others	1 ~ 10	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.

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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 : Keep containers tightly closed and store in a cool and dry place.
areas and containers : 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)
Ethane-1,2-diol TWA 25 ppm (V) (Vapor and Aerosol)
OSHA PEL Not listed
Canada Ontario Provincial
Ethane-1,2-diol STEL ceiling 100 mg/m³(H)
Canada Quebec Provincial
Ethane-1,2-diol C 50 ppm
- 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.

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
Appearance : Orange liquid
Odor : None
pH : 7 ~ 9

Boiling point : 212°F (100°C) ~ 473°F (245°C)

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Flash point : Not applicable (closed cup)

Relative Density (at 77°F, 25°C) : 1.0 ~ 1.2 (g/cm³)

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 : LD/LC50 values that are relevant for classification

[Ethane-1,2-diol]

Oral-rat LD50 >300 - <=2,000 mg/kg

Dermal-rabbit LD50 >5,000 mg/kg

[2,2'-oxydiethanol]

Oral-rat LD50 >300 - <=2,000 mg/kg

Dermal-rabbit LD50 >5,000 mg/kg

Carcinogenicity : This product does not contain any component that is considered a human carcinogen by IARC, ACGIH, EPA, EU or NTP.

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.

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

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SECTION 15: Regulatory information

< USA Information >

OSHA STATUS : This product is not 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) : RQ 5,000 pounds [Ethane-1,2-diol]

SARA TITLE III Section 313 (40 CFR 372) : Listed [Ethane-1,2-diol]

California Proposition 65 : Ethylene glycol (ingested)

< 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.

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

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

Last Revision Date : 13.02. 2020

Preparation Date : 27.05. 2015



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.

EU RoHS (Directive 2011/65/EU)

EU ELV (DIRECTIVE 2000/53/EC)

[ANSI Z400.1/Z129.1-2010][Shachihata Inc.] [EK-200N_pink_g] 1/5



Safety Data Sheet

According to OSHA 29 CFR 1910.1200 HCS & Canada WHMIS

Artline[®]
Xstamper

Revision Date : 13.02. 2020

SECTION 1: Identification

1.1. Product identifier

Product Name : Artline 200, 210, 220 Color : (Pink)
 EK-200N, EK-210N, EK-220N



1.2. Recommended use of the chemical and restrictions on use

Recommended use : Writing 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

Not classified

2.1.2 Label elements

Hazard pictograms : None

Signal word : None

Hazard statement : None

Precautionary statement

【Prevention】

Wash hands thoroughly after handling. (P264)

【Response】

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)

【Storage】

Store in a well-ventilated place. Keep cool. (P403+P235)

【Disposal】

Dispose of contents and container in accordance with local regulations. (P501)

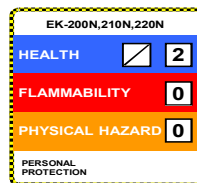
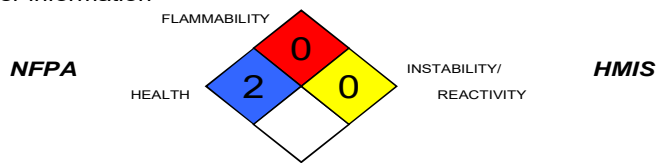
2.1.3 Other hazards

Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is not considered hazardous.

In Canada, the product mentioned above is not considered hazardous under the Workplace Hazardous Materials Information System (WHMIS2015).

[ANSI Z400.1/Z129.1-2010][Shachihata Inc.] [EK-200N_pink_g] 2/5

2.3 Other information

**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
Water	60 ~ 70	7732-18-5	none	none
Ethane-1,2-diol (Ethylene Glycol)	10 ~ 20	107-21-1	Acute Tox.(oral) 4	H302
2,2'-oxydiethanol	5 ~ 15	111-46-6	Acute Tox.(oral) 4	H302
Dyestuff	1 ~ 10	Confidential	none	none
Others	1 ~ 10	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.

[ANSI Z400.1/Z129.1-2010][Shachihata Inc.] [EK-200N_pink_g] 3/5

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 : Keep containers tightly closed and store in a cool and dry place.
areas and containers : 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)
Ethane-1,2-diol TWA 25 ppm (V) (Vapor and Aerosol)
OSHA PEL Not listed
Canada Ontario Provincial
Ethane-1,2-diol STEL ceiling 100 mg/m³(H)
Canada Quebec Provincial
Ethane-1,2-diol C 50 ppm
- 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.

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
Appearance : Pink liquid
Odor : None
pH : 7 ~ 9

Boiling point : 212°F (100°C) ~ 473°F (245°C)

[ANSI Z400.1/Z129.1-2010][Shachihata Inc.] [EK-200N_pink_g] 4/5

Flash point : Not applicable (closed cup)

Relative Density (at 77°F, 25°C) : 1.0 ~ 1.2 (g/cm³)

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 : LD/LC50 values that are relevant for classification

[Ethane-1,2-diol]

Oral-rat LD50 >300 - <=2,000 mg/kg

Dermal-rabbit LD50 >5,000 mg/kg

[2,2'-oxydiethanol]

Oral-rat LD50 >300 - <=2,000 mg/kg

Dermal-rabbit LD50 >5,000 mg/kg

Carcinogenicity : This product does not contain any component that is considered a human carcinogen by IARC, ACGIH, EPA, EU or NTP.

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.

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

[ANSI Z400.1/Z129.1-2010][Shachihata Inc.] [EK-200N_pink_g] 5/5

SECTION 15: Regulatory information

< USA Information >

OSHA STATUS : This product is not 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) : RQ 5,000 pounds [Ethane-1,2-diol]

SARA TITLE III Section 313 (40 CFR 372) : Listed [Ethane-1,2-diol]

California Proposition 65 : Ethylene glycol (ingested)

< 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.

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

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

Last Revision Date : 13.02. 2020

Preparation Date : 27.05. 2015



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.

EU RoHS (Directive 2011/65/EU)

EU ELV (DIRECTIVE 2000/53/EC)

[ANSI Z400.1/Z129.1-2010][Shachihata Inc.] [EK-200N_purple_g] 1/5



Safety Data Sheet

According to OSHA 29 CFR 1910.1200 HCS & Canada WHMIS

Artline[®]
Xstamper

Revision Date : 13.02. 2020

SECTION 1: Identification

1.1. Product identifier

Product Name : Artline 200, 210, 220 Color : (Purple)
 EK-200N, EK-210N, EK-220N



1.2. Recommended use of the chemical and restrictions on use

Recommended use : Writing 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

Not classified

2.1.2 Label elements

Hazard pictograms : None

Signal word : None

Hazard statement : None

Precautionary statement

【Prevention】

Wash hands thoroughly after handling. (P264)

【Response】

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)

【Storage】

Store in a well-ventilated place. Keep cool. (P403+P235)

【Disposal】

Dispose of contents and container in accordance with local regulations. (P501)

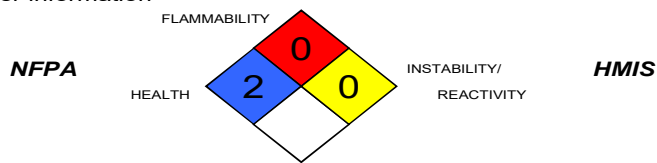
2.1.3 Other hazards

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[ANSI Z400.1/Z129.1-2010][Shachihata Inc.] [EK-200N_purple_g] 2/5

2.3 Other information



EK-200N,210N,220N	
HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	

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
Water	60 ~ 70	7732-18-5	none	none
Ethane-1,2-diol (Ethylene Glycol)	10 ~ 20	107-21-1	Acute Tox.(oral) 4	H302
2,2'-oxydiethanol	5 ~ 15	111-46-6	Acute Tox.(oral) 4	H302
Dyestuff	1 ~ 10	Confidential	none	none
Others	1 ~ 10	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.
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- 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.
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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

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[ANSI Z400.1/Z129.1-2010][Shachihata Inc.] [EK-200N_purple_g] 3/5

SECTION 6: Accidental release measures

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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.
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Do not throw the leakage thing directly into environment
- 6.3. Methods and material for containment and cleaning up
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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.
areas and containers : 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)
Ethane-1,2-diol TWA 25 ppm (V) (Vapor and Aerosol)
OSHA PEL Not listed
Canada Ontario Provincial
Ethane-1,2-diol STEL ceiling 100 mg/m³(H)
Canada Quebec Provincial
Ethane-1,2-diol C 50 ppm
- 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.

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
Appearance : Purple liquid
Odor : None
pH : 7 ~ 9

Boiling point : 212°F (100°C) ~ 473°F (245°C)

[ANSI Z400.1/Z129.1-2010][Shachihata Inc.] [EK-200N_purple_g] 4/5

Flash point : Not applicable (closed cup)

Relative Density (at 77°F, 25°C) : 1.0 ~ 1.2 (g/cm³)

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 : LD/LC50 values that are relevant for classification

[Ethane-1,2-diol]

Oral-rat LD50 >300 - <=2,000 mg/kg

Dermal-rabbit LD50 >5,000 mg/kg

[2,2'-oxydiethanol]

Oral-rat LD50 >300 - <=2,000 mg/kg

Dermal-rabbit LD50 >5,000 mg/kg

Carcinogenicity : This product does not contain any component that is considered a human carcinogen by IARC, ACGIH, EPA, EU or NTP.

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.

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

[ANSI Z400.1/Z129.1-2010][Shachihata Inc.] [EK-200N_purple_g] 5/5

SECTION 15: Regulatory information

< USA Information >

OSHA STATUS : This product is not 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) : RQ 5,000 pounds [Ethane-1,2-diol]

SARA TITLE III Section 313 (40 CFR 372) : Listed [Ethane-1,2-diol]

California Proposition 65 : Ethylene glycol (ingested)

< 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.

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

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

Last Revision Date : 13.02. 2020

Preparation Date : 27.05. 2015



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 are 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.

EU RoHS (Directive 2011/65/EU)

EU ELV (DIRECTIVE 2000/53/EC)

[ANSI Z400.1/Z129.1-2010][Shachihata Inc.] [EK-200N_red_g] 1/5



Safety Data Sheet

According to OSHA 29 CFR 1910.1200 HCS & Canada WHMIS

Artline[®]
Xstamper

Revision Date : 13.02. 2020

SECTION 1: Identification

1.1. Product identifier

Product Name : Artline 200, 210, 220 Color : (Red)
 EK-200N, EK-210N, EK-220N



1.2. Recommended use of the chemical and restrictions on use

Recommended use : Writing 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

Not classified

2.1.2 Label elements

Hazard pictograms : None

Signal word : None

Hazard statement : None

Precautionary statement

【Prevention】

Wash hands thoroughly after handling. (P264)

【Response】

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)

【Storage】

Store in a well-ventilated place. Keep cool. (P403+P235)

【Disposal】

Dispose of contents and container in accordance with local regulations. (P501)

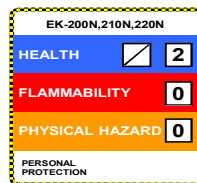
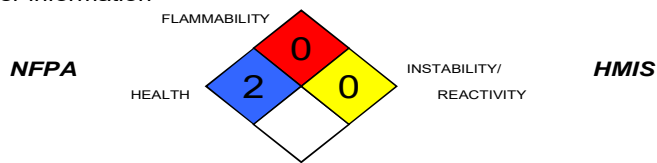
2.1.3 Other hazards

Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is not considered hazardous.

In Canada, the product mentioned above is not considered hazardous under the Workplace Hazardous Materials Information System (WHMIS2015).

[ANSI Z400.1/Z129.1-2010][Shachihata Inc.] [EK-200N_red_g] 2/5

2.3 Other information

**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
Water	60 ~ 70	7732-18-5	none	none
Ethane-1,2-diol (Ethylene Glycol)	10 ~ 20	107-21-1	Acute Tox.(oral) 4	H302
2,2'-oxydiethanol	5 ~ 15	111-46-6	Acute Tox.(oral) 4	H302
Dyestuff	1 ~ 10	Confidential	none	none
Others	1 ~ 10	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.

[ANSI Z400.1/Z129.1-2010][Shachihata Inc.] [EK-200N_red_g] 3/5

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 : Keep containers tightly closed and store in a cool and dry place.
areas and containers : 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)
Ethane-1,2-diol TWA 25 ppm (V) (Vapor and Aerosol)
OSHA PEL Not listed
Canada Ontario Provincial
Ethane-1,2-diol STEL ceiling 100 mg/m³(H)
Canada Quebec Provincial
Ethane-1,2-diol C 50 ppm
- 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.

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
Appearance : Red liquid
Odor : None
pH : 7 ~ 9

Boiling point : 212°F (100°C) ~ 473°F (245°C)

[ANSI Z400.1/Z129.1-2010][Shachihata Inc.] [EK-200N_red_g] 4/5

Flash point : Not applicable (closed cup)

Relative Density (at 77°F, 25°C) : 1.0 ~ 1.2 (g/cm³)

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 : LD/LC50 values that are relevant for classification

[Ethane-1,2-diol]

Oral-rat LD50 >300 - <=2,000 mg/kg

Dermal-rabbit LD50 >5,000 mg/kg

[2,2'-oxydiethanol]

Oral-rat LD50 >300 - <=2,000 mg/kg

Dermal-rabbit LD50 >5,000 mg/kg

Carcinogenicity : This product does not contain any component that is considered a human carcinogen by IARC, ACGIH, EPA, EU or NTP.

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.

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

[ANSI Z400.1/Z129.1-2010][Shachihata Inc.] [EK-200N_red_g] 5/5

SECTION 15: Regulatory information

< USA Information >

OSHA STATUS : This product is not 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) : RQ 5,000 pounds [Ethane-1,2-diol]

SARA TITLE III Section 313 (40 CFR 372) : Listed [Ethane-1,2-diol]

California Proposition 65 : Ethylene glycol (ingested)

< 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.

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

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

Last Revision Date : 13.02. 2020

Preparation Date : 27.05. 2015



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.

EU RoHS (Directive 2011/65/EU)

EU ELV (DIRECTIVE 2000/53/EC)

[ANSI Z400.1/Z129.1-2010][Shachihata Inc.] [EK-200N_yellow_g] 1/5



Safety Data Sheet

According to OSHA 29 CFR 1910.1200 HCS & Canada WHMIS

Artline[®]
Xstamper

Revision Date : 13.02. 2020

SECTION 1: Identification

1.1. Product identifier

Product Name : Artline 200, 210, 220 Color : (Yellow)
 EK-200N, EK-210N, EK-220N



1.2. Recommended use of the chemical and restrictions on use

Recommended use : Writing 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

Not classified

2.1.2 Label elements

Hazard pictograms : None

Signal word : None

Hazard statement : None

Precautionary statement

【Prevention】

Wash hands thoroughly after handling. (P264)

【Response】

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)

【Storage】

Store in a well-ventilated place. Keep cool. (P403+P235)

【Disposal】

Dispose of contents and container in accordance with local regulations. (P501)

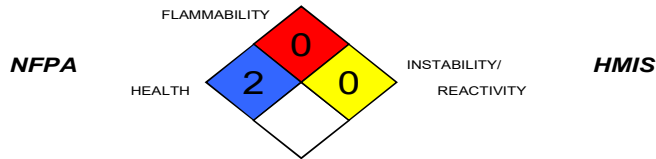
2.1.3 Other hazards

Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is not considered hazardous.

In Canada, the product mentioned above is not considered hazardous under the Workplace Hazardous Materials Information System (WHMIS2015).

[ANSI Z400.1/Z129.1-2010][Shachihata Inc.] [EK-200N_yellow_g] 2/5

2.3 Other information



EK-200N,210N,220N	
HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	

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
Water	60 ~ 70	7732-18-5	none	none
Ethane-1,2-diol (Ethylene Glycol)	10 ~ 20	107-21-1	Acute Tox.(oral) 4	H302
2,2'-oxydiethanol	5 ~ 15	111-46-6	Acute Tox.(oral) 4	H302
Dyestuff	1 ~ 10	Confidential	none	none
Others	1 ~ 10	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.

[ANSI Z400.1/Z129.1-2010][Shachihata Inc.] [EK-200N_yellow_g] 3/5

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 : Keep containers tightly closed and store in a cool and dry place.
areas and containers : 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)
Ethane-1,2-diol TWA 25 ppm (V) (Vapor and Aerosol)
OSHA PEL Not listed
Canada Ontario Provincial
Ethane-1,2-diol STEL ceiling 100 mg/m³(H)
Canada Quebec Provincial
Ethane-1,2-diol C 50 ppm
- 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.

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
Appearance : Yellow liquid
Odor : None
pH : 7 ~ 9

Boiling point : 212°F (100°C) ~ 473°F (245°C)

[ANSI Z400.1/Z129.1-2010][Shachihata Inc.] [EK-200N_yellow_g] 4/5

Flash point : Not applicable (closed cup)

Relative Density (at 77°F, 25°C) : 1.0 ~ 1.2 (g/cm³)

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 : LD/LC50 values that are relevant for classification

[Ethane-1,2-diol]

Oral-rat LD50 >300 - <=2,000 mg/kg

Dermal-rabbit LD50 >5,000 mg/kg

[2,2'-oxydiethanol]

Oral-rat LD50 >300 - <=2,000 mg/kg

Dermal-rabbit LD50 >5,000 mg/kg

Carcinogenicity : This product does not contain any component that is considered a human carcinogen by IARC, ACGIH, EPA, EU or NTP.

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.

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

[ANSI Z400.1/Z129.1-2010][Shachihata Inc.] [EK-200N_yellow_g] 5/5

SECTION 15: Regulatory information

< USA Information >

OSHA STATUS : This product is not 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) : RQ 5,000 pounds [Ethane-1,2-diol]

SARA TITLE III Section 313 (40 CFR 372) : Listed [Ethane-1,2-diol]

California Proposition 65 : Ethylene glycol (ingested)

< 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.

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

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

Last Revision Date : 13.02. 2020

Preparation Date : 27.05. 2015



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.

EU RoHS (Directive 2011/65/EU)

EU ELV (DIRECTIVE 2000/53/EC)

[ANSI Z400.1/Z129.1-2010][Shachihata Inc.] [EK-200N_black_g] 1/5



Safety Data Sheet

According to OSHA 29 CFR 1910.1200 HCS & Canada WHMIS

Artline[®]
Xstamper

Revision Date : 13.02. 2020

SECTION 1: Identification

1.1. Product identifier

Product Name : Artline 200, 210, 220 Color : (Black)
 EK-200N, EK-210N, EK-220N



1.2. Recommended use of the chemical and restrictions on use

Recommended use : Writing 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

Not classified

2.1.2 Label elements

Hazard pictograms : None

Signal word : None

Hazard statement : None

Precautionary statement

【Prevention】

Wash hands thoroughly after handling. (P264)

【Response】

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)

【Storage】

Store in a well-ventilated place. Keep cool. (P403+P235)

【Disposal】

Dispose of contents and container in accordance with local regulations. (P501)

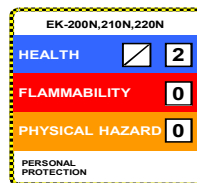
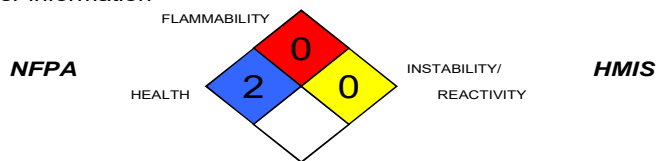
2.1.3 Other hazards

Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is not considered hazardous.

In Canada, the product mentioned above is not considered hazardous under the Workplace Hazardous Materials Information System (WHMIS2015).

[ANSI Z400.1/Z129.1-2010][Shachihata Inc.] [EK-200N_black_g] 2/5

2.3 Other information

**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
Water	60 ~ 70	7732-18-5	none	none
Ethane-1,2-diol (Ethylene Glycol)	5 ~ 15	107-21-1	Acute Tox.(oral) 4	H302
2,2'-oxydiethanol	5 ~ 15	111-46-6	Acute Tox.(oral) 4	H302
Dyestuff	5 ~ 15	Confidential	none	none
Others	1 ~ 10	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.

[ANSI Z400.1/Z129.1-2010][Shachihata Inc.] [EK-200N_black_g] 3/5

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 : Keep containers tightly closed and store in a cool and dry place.
areas and containers : 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)
Ethane-1,2-diol TWA 25 ppm (V) (Vapor and Aerosol)
OSHA PEL Not listed
Canada Ontario Provincial
Ethane-1,2-diol STEL ceiling 100 mg/m³(H)
Canada Quebec Provincial
Ethane-1,2-diol C 50 ppm
- 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.

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
Appearance : Black liquid
Odor : None
pH : 7 ~ 9

Boiling point : 212°F (100°C) ~ 473°F (245°C)

[ANSI Z400.1/Z129.1-2010][Shachihata Inc.] [EK-200N_black_g] 4/5

Flash point : Not applicable (closed cup)

Relative Density (at 77°F, 25°C) : 1.0 ~ 1.2 (g/cm³)

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 : LD/LC50 values that are relevant for classification

[Ethane-1,2-diol]

Oral-rat LD50 >300 - <=2,000 mg/kg

Dermal-rabbit LD50 >5,000 mg/kg

[2,2'-oxydiethanol]

Oral-rat LD50 >300 - <=2,000 mg/kg

Dermal-rabbit LD50 >5,000 mg/kg

Carcinogenicity : This product does not contain any component that is considered a human carcinogen by IARC, ACGIH, EPA, EU or NTP.

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.

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

[ANSI Z400.1/Z129.1-2010][Shachihata Inc.] [EK-200N_black_g] 5/5

SECTION 15: Regulatory information

< USA Information >

OSHA STATUS : This product is not 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) : RQ 5,000 pounds [Ethane-1,2-diol]

SARA TITLE III Section 313 (40 CFR 372) : Listed [Ethane-1,2-diol]

California Proposition 65 : Ethylene glycol (ingested)

< 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.

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

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

Last Revision Date : 13.02. 2020

Preparation Date : 27.05. 2015



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.

EU RoHS (Directive 2011/65/EU)

EU ELV (DIRECTIVE 2000/53/EC)

[ANSI Z400.1/Z129.1-2010][Shachihata Inc.] [EK-200N_blue_g] 1/5



Safety Data Sheet

According to OSHA 29 CFR 1910.1200 HCS & Canada WHMIS

Artline[®]
Xstamper

Revision Date : 13.02. 2020

SECTION 1: Identification

1.1. Product identifier

Product Name : Artline 200, 210, 220 Color : (Blue)
 EK-200N, EK-210N, EK-220N



1.2. Recommended use of the chemical and restrictions on use

Recommended use : Writing 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

Not classified

2.1.2 Label elements

Hazard pictograms : None

Signal word : None

Hazard statement : None

Precautionary statement

【Prevention】

Wash hands thoroughly after handling. (P264)

【Response】

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)

【Storage】

Store in a well-ventilated place. Keep cool. (P403+P235)

【Disposal】

Dispose of contents and container in accordance with local regulations. (P501)

2.1.3 Other hazards

Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is not considered hazardous.

In Canada, the product mentioned above is not considered hazardous under the Workplace Hazardous Materials Information System (WHMIS2015).

[ANSI Z400.1/Z129.1-2010][Shachihata Inc.] [EK-200N_blue_g] 2/5

2.3 Other information

NFPA

FLAMMABILITY	0
HEALTH	2
INSTABILITY/ REACTIVITY	0

HMIS

EK-200N,210N,220N	
HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	

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
Water	60 ~ 70	7732-18-5	none	none
Ethane-1,2-diol (Ethylene Glycol)	10 ~ 20	107-21-1	Acute Tox.(oral) 4	H302
2,2'-oxydiethanol	5 ~ 15	111-46-6	Acute Tox.(oral) 4	H302
Dyestuff	1 ~ 10	Confidential	none	none
Others	1 ~ 10	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.

[ANSI Z400.1/Z129.1-2010][Shachihata Inc.] [EK-200N_blue_g] 3/5

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 : Keep containers tightly closed and store in a cool and dry place.
areas and containers : 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)
Ethane-1,2-diol TWA 25 ppm (V) (Vapor and Aerosol)
OSHA PEL Not listed
Canada Ontario Provincial
Ethane-1,2-diol STEL ceiling 100 mg/m³(H)
Canada Quebec Provincial
Ethane-1,2-diol C 50 ppm
- 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.

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
Appearance : Blue liquid
Odor : None
pH : 7 ~ 9

Boiling point : 212°F (100°C) ~ 473°F (245°C)

[ANSI Z400.1/Z129.1-2010][Shachihata Inc.] [EK-200N_blue_g] 4/5

Flash point : Not applicable (closed cup)

Relative Density (at 77°F, 25°C) : 1.0 ~ 1.2 (g/cm³)

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 : LD/LC50 values that are relevant for classification

[Ethane-1,2-diol]

Oral-rat LD50 >300 - <=2,000 mg/kg

Dermal-rabbit LD50 >5,000 mg/kg

[2,2'-oxydiethanol]

Oral-rat LD50 >300 - <=2,000 mg/kg

Dermal-rabbit LD50 >5,000 mg/kg

Carcinogenicity : This product does not contain any component that is considered a human carcinogen by IARC, ACGIH, EPA, EU or NTP.

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.

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

[ANSI Z400.1/Z129.1-2010][Shachihata Inc.] [EK-200N_blue_g] 5/5

SECTION 15: Regulatory information

< USA Information >

OSHA STATUS : This product is not 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) : RQ 5,000 pounds [Ethane-1,2-diol]

SARA TITLE III Section 313 (40 CFR 372) : Listed [Ethane-1,2-diol]

California Proposition 65 : Ethylene glycol (ingested)

< 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.

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

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

Last Revision Date : 13.02. 2020

Preparation Date : 27.05. 2015



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.

EU RoHS (Directive 2011/65/EU)

EU ELV (DIRECTIVE 2000/53/EC)

[ANSI Z400.1/Z129.1-2010][Shachihata Inc.] [EK-200N_brown_g] 1/5



Safety Data Sheet

According to OSHA 29 CFR 1910.1200 HCS & Canada WHMIS

Artline[®]
Xstamper

Revision Date : 13.02. 2020

SECTION 1: Identification

1.1. Product identifier

Product Name : Artline 200, 210, 220 Color : (Brown)
 EK-200N, EK-210N, EK-220N



1.2. Recommended use of the chemical and restrictions on use

Recommended use : Writing 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

Not classified

2.1.2 Label elements

Hazard pictograms : None

Signal word : None

Hazard statement : None

Precautionary statement

【Prevention】

Wash hands thoroughly after handling. (P264)

【Response】

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)

【Storage】

Store in a well-ventilated place. Keep cool. (P403+P235)

【Disposal】

Dispose of contents and container in accordance with local regulations. (P501)

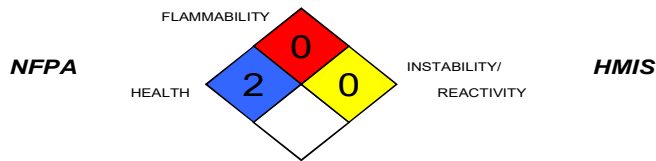
2.1.3 Other hazards

Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is not considered hazardous.

In Canada, the product mentioned above is not considered hazardous under the Workplace Hazardous Materials Information System (WHMIS2015).

[ANSI Z400.1/Z129.1-2010][Shachihata Inc.] [EK-200N_brown_g] 2/5

2.3 Other information



EK-200N,210N,220N	
HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	

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
Water	60 ~ 70	7732-18-5	none	none
Ethane-1,2-diol (Ethylene Glycol)	10 ~ 20	107-21-1	Acute Tox.(oral) 4	H302
2,2'-oxydiethanol	5 ~ 15	111-46-6	Acute Tox.(oral) 4	H302
Dyestuff	1 ~ 10	Confidential	none	none
Others	1 ~ 10	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.

[ANSI Z400.1/Z129.1-2010][Shachihata Inc.] [EK-200N_brown_g] 3/5

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 : Keep containers tightly closed and store in a cool and dry place.
areas and containers : 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)
Ethane-1,2-diol TWA 25 ppm (V) (Vapor and Aerosol)
OSHA PEL Not listed
Canada Ontario Provincial
Ethane-1,2-diol STEL ceiling 100 mg/m³(H)
Canada Quebec Provincial
Ethane-1,2-diol C 50 ppm
- 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.

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
Appearance : Brown liquid
Odor : None
pH : 7 ~ 9

Boiling point : 212°F (100°C) ~ 473°F (245°C)

[ANSI Z400.1/Z129.1-2010][Shachihata Inc.] [EK-200N_brown_g] 4/5

Flash point : Not applicable (closed cup)

Relative Density (at 77°F, 25°C) : 1.0 ~ 1.2 (g/cm³)

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 : LD/LC50 values that are relevant for classification

[Ethane-1,2-diol]

Oral-rat LD50 >300 - <=2,000 mg/kg

Dermal-rabbit LD50 >5,000 mg/kg

[2,2'-oxydiethanol]

Oral-rat LD50 >300 - <=2,000 mg/kg

Dermal-rabbit LD50 >5,000 mg/kg

Carcinogenicity : This product does not contain any component that is considered a human carcinogen by IARC, ACGIH, EPA, EU or NTP.

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.

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

[ANSI Z400.1/Z129.1-2010][Shachihata Inc.] [EK-200N_brown_g] 5/5

SECTION 15: Regulatory information

< USA Information >

OSHA STATUS : This product is not 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) : RQ 5,000 pounds [Ethane-1,2-diol]

SARA TITLE III Section 313 (40 CFR 372) : Listed [Ethane-1,2-diol]

California Proposition 65 : Ethylene glycol (ingested)

< 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.

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

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

Last Revision Date : 13.02. 2020

Preparation Date : 27.05. 2015



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.

EU RoHS (Directive 2011/65/EU)

EU ELV (DIRECTIVE 2000/53/EC)

[ANSI Z400.1/Z129.1-2010][Shachihata Inc.] [EK-200N_green_g] 1/5



Safety Data Sheet

According to OSHA 29 CFR 1910.1200 HCS & Canada WHMIS

Artline[®]
Xstamper

Revision Date : 13.02. 2020

SECTION 1: Identification

1.1. Product identifier

Product Name : Artline 200, 210, 220 Color : (Green)
 EK-200N, EK-210N, EK-220N



1.2. Recommended use of the chemical and restrictions on use

Recommended use : Writing 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

Not classified

2.1.2 Label elements

Hazard pictograms : None

Signal word : None

Hazard statement : None

Precautionary statement

【Prevention】

Wash hands thoroughly after handling. (P264)

【Response】

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)

【Storage】

Store in a well-ventilated place. Keep cool. (P403+P235)

【Disposal】

Dispose of contents and container in accordance with local regulations. (P501)

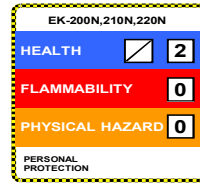
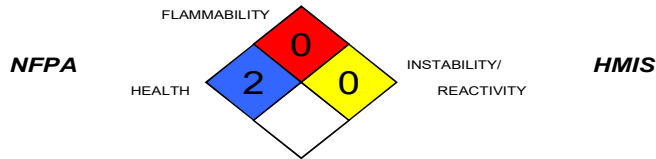
2.1.3 Other hazards

Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is not considered hazardous.

In Canada, the product mentioned above is not considered hazardous under the Workplace Hazardous Materials Information System (WHMIS2015).

[ANSI Z400.1/Z129.1-2010][Shachihata Inc.] [EK-200N_green_g] 2/5

2.3 Other information

**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
Water	60 ~ 70	7732-18-5	none	none
Ethane-1,2-diol (Ethylene Glycol)	10 ~ 20	107-21-1	Acute Tox.(oral) 4	H302
2,2'-oxydiethanol	5 ~ 15	111-46-6	Acute Tox.(oral) 4	H302
Dyestuff	1 ~ 10	Confidential	none	none
Others	1 ~ 10	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.

[ANSI Z400.1/Z129.1-2010][Shachihata Inc.] [EK-200N_green_g] 3/5

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 : Keep containers tightly closed and store in a cool and dry place.
areas and containers : 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)
Ethane-1,2-diol TWA 25 ppm (V) (Vapor and Aerosol)
OSHA PEL Not listed
Canada Ontario Provincial
Ethane-1,2-diol STEL ceiling 100 mg/m³(H)
Canada Quebec Provincial
Ethane-1,2-diol C 50 ppm
- 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.

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
Appearance : Green liquid
Odor : None
pH : 7 ~ 9

Boiling point : 212°F (100°C) ~ 473°F (245°C)

[ANSI Z400.1/Z129.1-2010][Shachihata Inc.] [EK-200N_green_g] 4/5

Flash point : Not applicable (closed cup)

Relative Density (at 77°F, 25°C) : 1.0 ~ 1.2 (g/cm³)

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 : LD/LC50 values that are relevant for classification

[Ethane-1,2-diol]

Oral-rat LD50 >300 - <=2,000 mg/kg

Dermal-rabbit LD50 >5,000 mg/kg

[2,2'-oxydiethanol]

Oral-rat LD50 >300 - <=2,000 mg/kg

Dermal-rabbit LD50 >5,000 mg/kg

Carcinogenicity : This product does not contain any component that is considered a human carcinogen by IARC, ACGIH, EPA, EU or NTP.

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.

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

[ANSI Z400.1/Z129.1-2010][Shachihata Inc.] [EK-200N_green_g] 5/5

SECTION 15: Regulatory information

< USA Information >

OSHA STATUS : This product is not 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) : RQ 5,000 pounds [Ethane-1,2-diol]

SARA TITLE III Section 313 (40 CFR 372) : Listed [Ethane-1,2-diol]

California Proposition 65 : Ethylene glycol (ingested)

< 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.

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

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

Last Revision Date : 13.02. 2020

Preparation Date : 27.05. 2015



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.

EU RoHS (Directive 2011/65/EU)

EU ELV (DIRECTIVE 2000/53/EC)

[ANSI Z400.1/Z129.1-2010][Shachihata Inc.] [EK-200N_pink_g] 1/5



Safety Data Sheet

According to OSHA 29 CFR 1910.1200 HCS & Canada WHMIS

Artline[®]
Xstamper

Revision Date : 13.02. 2020

SECTION 1: Identification

1.1. Product identifier

Product Name : Artline 200, 210, 220 Color : Magenta , Apricot , Light Blue , Royal Blue , Sky Blue ,
 EK-200N, EK-210N, EK-220N Turquoise , Yellow Green , Dark Green , Dark Red ,
 Dark Brown , Grey

1.2. Recommended use of the chemical and restrictions on use

Recommended use : Writing 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

Not classified

2.1.2 Label elements

Hazard pictograms : None

Signal word : None

Hazard statement : None

Precautionary statement

【Prevention】

Wash hands thoroughly after handling.

【Response】

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 and attention.

【Storage】

Store in a well-ventilated place. Keep cool.

【Disposal】

Dispose of contents and container in accordance with local regulations.



(P264)

(P305+P351+P338)

(P337+P313)

(P403+P235)

(P501)

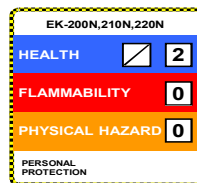
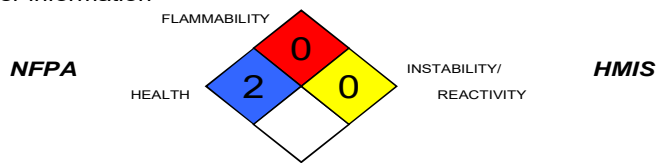
2.1.3 Other hazards

Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is not considered hazardous.

In Canada, the product mentioned above is not considered hazardous under the Workplace Hazardous Materials Information System (WHMIS2015).

[ANSI Z400.1/Z129.1-2010][Shachihata Inc.] [EK-200N_pink_g] 2/5

2.3 Other information

**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
Water	60 ~ 70	7732-18-5	none	none
Ethane-1,2-diol (Ethylene Glycol)	10 ~ 20	107-21-1	Acute Tox.(oral) 4	H302
2,2'-oxydiethanol	5 ~ 15	111-46-6	Acute Tox.(oral) 4	H302
Dyestuff	0.5 ~ 10	Confidential	none	none
Others	1 ~ 10	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.

[ANSI Z400.1/Z129.1-2010][Shachihata Inc.] [EK-200N_pink_g] 3/5

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 : Keep containers tightly closed and store in a cool and dry place.
areas and containers : 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)
Ethane-1,2-diol TWA 25 ppm (V) (Vapor and Aerosol)
OSHA PEL Not listed
Canada Ontario Provincial
Ethane-1,2-diol STEL ceiling 100 mg/m³(H)
Canada Quebec Provincial
Ethane-1,2-diol C 50 ppm
- 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.

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
Appearance : Liquid
Odor : None
pH : 7 ~ 9

Boiling point : 212°F (100°C) ~ 473°F (245°C)

[ANSI Z400.1/Z129.1-2010][Shachihata Inc.] [EK-200N_pink_g] 4/5

Flash point : Not applicable (closed cup)

Relative Density (at 77°F, 25°C) : 1.0 ~ 1.2 (g/cm³)

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 : LD/LC50 values that are relevant for classification

[Ethane-1,2-diol]

Oral-rat LD50 >300 - <=2,000 mg/kg

Dermal-rabbit LD50 >5,000 mg/kg

[2,2'-oxydiethanol]

Oral-rat LD50 >300 - <=2,000 mg/kg

Dermal-rabbit LD50 >5,000 mg/kg

Carcinogenicity : This product does not contain any component that is considered a human carcinogen by IARC, ACGIH, EPA, EU or NTP.

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.

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

[ANSI Z400.1/Z129.1-2010][Shachihata Inc.] [EK-200N_pink_g] 5/5

SECTION 15: Regulatory information

< USA Information >

OSHA STATUS : This product is not 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) : RQ 5,000 pounds [Ethane-1,2-diol]

SARA TITLE III Section 313 (40 CFR 372) : Listed [Ethane-1,2-diol]

California Proposition 65 : Ethylene glycol (ingested)

< 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.

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

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

Last Revision Date : 13.02. 2020

Preparation Date : 27.05. 2015



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 are 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.

EU RoHS (Directive 2011/65/EU)

EU ELV (DIRECTIVE 2000/53/EC)