

# Safety Data Sheet

according to Safe Work Australia document

"Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice December 2011"

Issued Date : 19th Jul. 2013

Revised Date : 5th Mar. 2019

**SECTION 1: Identification ; Chemical product and company identification**

**1.1. Product identifier**

Product Name : Artline DRAWING SYSTEM

Colour : (Black)



EK-2305N, EK-231N, EK-232N, EK-233N, EK-234N,

EK-235N, EK-236N, EK-237N, EK-238N



**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Recommended use : Writing ink



**1.3. Details of the supplier of the safety data sheet**

Supplier Company Name : ACCO Brands Australia Pty Ltd  
 Address : 2 Coronation Avenue, Kings Park, 2148 NSW, Australia  
 Phone : 02 9694 0900 (9am to 5pm AEST, Monday to Friday)  
 Contact (e-mail) : [sds.anz@acco.com](mailto:sds.anz@acco.com)  
 Website : [www.accobrands.com.au](http://www.accobrands.com.au)

Manufacturer Company Name : Shachihata Inc.  
 Address : 4-69, Amazuka-cho, Nishi-ku, Nagoya City, 451-0021, Japan  
 Phone : +81-52-521-3600  
 Fax : +81-52-521-3899  
 Contact (e-mail) : [chem-analysis@ngy.shachihata.co.jp](mailto:chem-analysis@ngy.shachihata.co.jp)



**1.4. Emergency telephone number**

Poisons Information Centre : 13 11 26

**SECTION 2: Hazards identification**

Non-Hazardous Substance , Non-Dangerous Goods.

Not classified as hazardous according to the criteria of Safe Work Australia (SWA - formerly NOHSC), and not classified as Dangerous Goods according to the Australian Dangerous Goods (ADG) Code for Transport by Road and Rail.

**2.1. Classification of the substance or mixture**

**2.1.1. Classification (SWA)**

Not classified (ink)

**2.2. Label elements**

Labelling (SWA)

Symbols : 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)

**2.3. Other hazards**

No information available.

**SECTION 3: Composition/information on ingredients**

Ingredients :

Chemical Name / Generic name	Composition weight %	CAS Registry No.	Hazard Class (category)	Hazard statement
Water	50 ~ 60	7732-18-5	none	none
Ethane-1,2-diol (Ethylene Glycol)	10 ~ 20	107-21-1	Acute Tox.(oral) 4	H302
2,2'-oxydiethanol	1 ~ 10	111-46-6	Acute Tox.(oral) 4	H302
Carbon black	5 ~ 15	1333-86-4	none	none
Synthetic resin	1 ~ 10	Confidential	none	none
Others	5 ~ 15	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.

**SECTION 5: Firefighting-measures****5.1. Extinguishing media**

- Suitable extinguishing media : Dry chemical powder, foam or carbon dioxide
- Unsuitable extinguishing media : none

**5.2. Special hazards arising from the substance or mixture**

- For initial stage extinction, carbon dioxide or dry chemical powder.
- When a fire extends, fire is extinguished by a large amount of water spray.
- Do not discharge extinguishing waters into the aquatic environment.

**5.3. Advice for firefighters**

- In the extinction work, an appropriate protective equipment (gloves, glasses, and mask) has to be worn.
- Because during a fire, hazardous gases may be generated, fire-fighters have to wear self-contained breathing apparatus and other protective equipment.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective 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 and personal protection**

### **8.1. Control parameters**

Australian exposure standards (2018)

Ethane-1,2-diol	TWA	20ppm
2,2'-oxydiethanol	TWA	23ppm
Carbon black	TWA	3 mg/m <sup>3</sup>

EH40/2005 Workplace exposure limits

Ethane-1,2-diol	TWA	20ppm
2,2'-oxydiethanol	TWA	23ppm
Carbon black	TWA	3.5 mg/m <sup>3</sup>

ACGIH (2018)

Ethane-1,2-diol	TWA	25 ppm (V)	(Vapor and Aerosol)
Carbon black	TWA	3 mg/m <sup>3</sup>	

### **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  
 Odour : none  
 pH : 8 ~ 11  
 Boiling point : No data available  
 Flash point : Not applicable (closed cup)  
 Relative Density (at 25°C) : 1.0 ~ 1.3 (g/cm<sup>3</sup>)  
 Solubility in Water : soluble

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No dangerous reaction known under conditions of normal use.

**10.2. Chemical stability**

Thermally stable at typical use temperatures.

**10.3. Possibility of hazardous reactions**

No data available

**10.4. Conditions to Avoid**

High temperature, Direct sunlight, Fire

**10.5. Incompatible Materials**

No data available

**10.6. Hazardous decomposition products**

CO, CO<sub>2</sub>

**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 : Carbon black has been classified by the IARC as Group 2B.

Other materials ; Not contain any component that is considered a human carcinogen by IARC, ACGIH, EPA, EU or NTP.

Regarding the carcinogenicity of carbon black, International Agency for Research on Cancer (IARC) has classified as a group 2B. However, ACGIH (American Conference of Governmental Industrial Hygienists), EPA (Environmental Protection Agency), EU (European Chemicals Agency), NTP (National Toxicology Program, USA) in the classification of suspected carcinogenic to humans has not been done.

Therefore, as the ink product we could not classify the carcinogenicity of GHS from that there is no sufficient data.

**SECTION 12: Ecological information**

**12.1. Toxicity** : 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. Results of PBT and vPvB assessment** : No data available

**12.6. Other adverse effects** : No data available

**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**

Determination of whether a Dangerous Good based on ADG Code criteria.

UN Numbers listed as "UN" followed by 4 digits.

Dangerous Good Classes and Labels for all Dangerous Goods.

Special Provisions listed.

Road – ADG – Australian Dangerous Goods Code (Road and Rail)

Air – IATA – International Air Transport Association

Sea – IMDG – International Maritime Dangerous Goods

**14.1. UN number** ADG, IMDG, IATA : none

**14.2. UN proper shipping name** ADG, IMDG, IATA : none

- 14.3. **Transport hazard class(es)** ADG, IMDG, IATA : none
- 14.4. **Packing group** ADG, IMDG, IATA : none
- 14.5. **Environmental hazards** Marine pollutant : N
- 14.6. **Special precautions for user** EMS Number : none
- 14.7. **HAZCHEM Code** : none

**SECTION 15: Regulatory information**

This product does not contain any hazardous chemical that has been determined by Montreal Protocol (Ozone depleting substances), The Stockholm Convention (Persistent Organic Pollutants), and The Rotterdam Convention (Prior Informed Consent).

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Safework Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals.

**15.2. Chemical safety assessment**

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

**SECTION 16: Other information**

**References**

Model Code of Practice	Preparation of Safety Data Sheets for Hazardous Chemicals Labelling of Workplace Hazardous Chemicals National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC: 2011 (2003)]
GHS	Globally Harmonised System of Classification and Labelling of Chemicals (GHS)
Safe Work Australia HSIS	<a href="http://hsis.safeworkaustralia.gov.au/HazardousSubstance">http://hsis.safeworkaustralia.gov.au/HazardousSubstance</a>
WES	Workplace Exposure Standards for Airborne Contaminants (2018)
ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail, 7th edition, National Transport Commission. (ADG7)



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/EC)  
ELV Directive(2000/53/EC)

# Safety Data Sheet

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Issued Date : 19th Jul. 2013

Revised Date : 5th Mar. 2019

**SECTION 1: Identification ; Chemical product and company identification**

**1.1. Product identifier**

Product Name : Artline DRAWING SYSTEM

Colour : (Blue)



EK-2305N, EK-231N, EK-232N, EK-233N, EK-234N,  
EK-235N, EK-236N, EK-237N, EK-238N



**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Recommended use : Writing ink



**1.3. Details of the supplier of the safety data sheet**

Supplier Company Name : ACCO Brands Australia Pty Ltd  
 Address : 2 Coronation Avenue, Kings Park, 2148 NSW, Australia  
 Phone : 02 9694 0900 (9am to 5pm AEST, Monday to Friday)  
 Contact (e-mail) : [sds.anz@acco.com](mailto:sds.anz@acco.com)  
 Website : [www.accobrand.com.au](http://www.accobrand.com.au)

Manufacturer Company Name : Shachihata Inc.  
 Address : 4-69,Amazuka-cho,Nishi-ku,Nagoya City,451-0021,Japan  
 Phone : +81-52-521-3600  
 Fax : +81-52-521-3899  
 Contact (e-mail) : [chem-analysis@ngy.shachihata.co.jp](mailto:chem-analysis@ngy.shachihata.co.jp)



**1.4. Emergency telephone number**

Poisons Information Centre : 13 11 26

**SECTION 2: Hazards identification**

Non-Hazardous Substance , Non-Dangerous Goods.

Not classified as hazardous according to the criteria of Safe Work Australia (SWA - formerly NOHSC), and not classified as Dangerous Goods according to the Australian Dangerous Goods (ADG) Code for Transport by Road and Rail.

**2.1. Classification of the substance or mixture**

**2.1.1. Classification (SWA)**

Not classified (ink)

**2.2. Label elements**

Labelling (SWA)

Symbols : 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)

**2.3. Other hazards**

No information available.

**SECTION 3: Composition/information on ingredients**

Ingredients :

Chemical Name / Generic name	Composition weight %	CAS Registry No.	Hazard Class (category)	Hazard statement
Water	55 ~ 65	7732-18-5	none	none
Ethane-1,2-diol (Ethylene Glycol)	5 ~ 15	107-21-1	Acute Tox.(oral) 4	H302
1,2,3-Propanetriol	10 ~ 20	56-81-5	none	none
Organic pigment	5 ~ 15	Confidential	none	none
Synthetic resin	1 ~ 5	Confidential	none	none
Others	1 ~ 5	Confidential	none	none
total	100			

**SECTION 4: First-aid measures****4.1. Description of first aid measures**

- IF INHALED : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Consult a doctor if symptoms persist.
- IF ON SKIN : Remove / Take off immediately all contaminated clothing. Wash with soap and water. If skin irritation/rash occurs or feel unwell, consult a doctor for medical advice.
- IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.
- IF SWALLOWED : After rinse mouth immediately, give about 250 ml of water or milk and thin in the stomach, and do not vomit forcibly. Moreover, do not give anything from the mouth to the patient when not conscious. Receive the doctor's treatment (stomach pump) promptly.

**SECTION 5: Firefighting-measures****5.1. Extinguishing media**

- Suitable extinguishing media : Dry chemical powder, foam or carbon dioxide
- Unsuitable extinguishing media : none

**5.2. Special hazards arising from the substance or mixture**

- For initial stage extinction, carbon dioxide or dry chemical powder.
- When a fire extends, fire is extinguished by a large amount of water spray.
- Do not discharge extinguishing waters into the aquatic environment.

**5.3. Advice for firefighters**

- In the extinction work, an appropriate protective equipment (gloves, glasses, and mask) has to be worn.
- Because during a fire, hazardous gases may be generated, fire-fighters have to wear self-contained breathing apparatus and other protective equipment.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective 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 and personal protection**

### **8.1. Control parameters**

Australian exposure standards (2018)

Ethane-1,2-diol	TWA	20ppm
1,2,3-Propanetriol	TWA	10 mg/m <sup>3</sup>

EH40/2005 Workplace exposure limits

Ethane-1,2-diol	TWA	20ppm
1,2,3-Propanetriol	TWA	10 mg/m <sup>3</sup>

ACGIH (2018)

Ethane-1,2-diol	TWA	25 ppm (V) (Vapor and Aerosol)
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### **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
Odour	: none
pH	: 8 ~ 11
Boiling point	: No data available
Flash point	: Not applicable (closed cup)
Relative Density (at 25°C)	: 1.0 ~ 1.3 (g/cm <sup>3</sup> )
Solubility in Water	: soluble

## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

No dangerous reaction known under conditions of normal use.

### **10.2. Chemical stability**

Thermally stable at typical use temperatures.



**10.3. Possibility of hazardous reactions**

No data available

**10.4. Conditions to Avoid**

High temperature, Direct sunlight, Fire

**10.5. Incompatible Materials**

No data available

**10.6. Hazardous decomposition products**CO, CO<sub>2</sub>**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 &gt;300 - &lt;=2,000 mg/kg

Dermal-rabbit LD50 &gt;5,000 mg/kg

[1,2,3-Propanetriol]

Oral-rat LD50 &gt;5,000 mg/kg

Dermal-rabbit LD50 &gt;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. Toxicity** : 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. Results of PBT and vPvB assessment** : No data available**12.6. Other adverse effects** : No data available**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**

Determination of whether a Dangerous Good based on ADG Code criteria.

UN Numbers listed as "UN" followed by 4 digits.

Dangerous Good Classes and Labels for all Dangerous Goods.

Special Provisions listed.

Road – ADG – Australian Dangerous Goods Code (Road and Rail)

Air – IATA – International Air Transport Association

Sea – IMDG – International Maritime Dangerous Goods

**14.1. UN number** ADG, IMDG, IATA : none**14.2. UN proper shipping name** ADG, IMDG, IATA : none**14.3. Transport hazard class(es)** ADG, IMDG, IATA : none**14.4. Packing group** ADG, IMDG, IATA : none**14.5. Environmental hazards** Marine pollutant : N**14.6. Special precautions for user** EMS Number : none**14.7. HAZCHEM Code** : none

**SECTION 15: Regulatory information**

This product does not contain any hazardous chemical that has been determined by Montreal Protocol (Ozone depleting substances), The Stockholm Convention (Persistent Organic Pollutants), and The Rotterdam Convention (Prior Informed Consent).

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Safework Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals.

**15.2. Chemical safety assessment**

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

**SECTION 16: Other information****References**

Model Code of Practice	Preparation of Safety Data Sheets for Hazardous Chemicals Labelling of Workplace Hazardous Chemicals National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC: 2011 (2003)]
GHS	Globally Harmonised System of Classification and Labelling of Chemicals (GHS)
Safe Work Australia HSIS	<a href="http://hsis.safeworkaustralia.gov.au/HazardousSubstance">http://hsis.safeworkaustralia.gov.au/HazardousSubstance</a>
WES	Workplace Exposure Standards for Airborne Contaminants (2018)
ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail, 7th edition, National Transport Commission. (ADG7)



EU RoHS Directive(2011/65/EC)

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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.

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"Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice December 2011"

Issued Date : 19th Jul. 2013

Revised Date : 5th Mar. 2019

**SECTION 1: Identification ; Chemical product and company identification**

**1.1. Product identifier**

Product Name : Artline DRAWING SYSTEM

Colour : (Red)



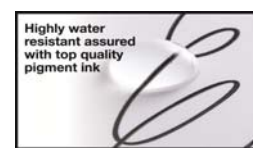
EK-2305N, EK-231N, EK-232N, EK-233N, EK-234N,

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**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Recommended use : Writing ink



**1.3. Details of the supplier of the safety data sheet**

Supplier Company Name : ACCO Brands Australia Pty Ltd  
 Address : 2 Coronation Avenue, Kings Park, 2148 NSW, Australia  
 Phone : 02 9694 0900 (9am to 5pm AEST, Monday to Friday)  
 Contact (e-mail) : [sds.anz@acco.com](mailto:sds.anz@acco.com)  
 Website : [www.accobrands.com.au](http://www.accobrands.com.au)

Manufacturer Company Name : Shachihata Inc.  
 Address : 4-69, Amazuka-cho, Nishi-ku, Nagoya City, 451-0021, Japan  
 Phone : +81-52-521-3600  
 Fax : +81-52-521-3899  
 Contact (e-mail) : [chem-analysis@ngv.shachihata.co.jp](mailto:chem-analysis@ngv.shachihata.co.jp)



**1.4. Emergency telephone number**

Poisons Information Centre : 13 11 26

**SECTION 2: Hazards identification**

Non-Hazardous Substance , Non-Dangerous Goods.

Not classified as hazardous according to the criteria of Safe Work Australia (SWA - formerly NOHSC), and not classified as Dangerous Goods according to the Australian Dangerous Goods (ADG) Code for Transport by Road and Rail.

**2.1. Classification of the substance or mixture**

**2.1.1. Classification (SWA)**

Not classified (ink)

**2.2. Label elements**

Labelling (SWA)

Symbols : 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)

**2.3. Other hazards**

No information available.

**SECTION 3: Composition/information on ingredients**

Ingredients :

Chemical Name / Generic name	Composition weight %	CAS Registry No.	Hazard Class (category)	Hazard statement
Water	55 ~ 65	7732-18-5	none	none
Ethane-1,2-diol (Ethylene Glycol)	5 ~ 15	107-21-1	Acute Tox.(oral) 4	H302
1,2,3-Propanetriol	10 ~ 20	56-81-5	none	none
Organic pigment	5 ~ 15	Confidential	none	none
Synthetic resin	1 ~ 5	Confidential	none	none
Others	1 ~ 5	Confidential	none	none
total	100			

**SECTION 4: First-aid measures****4.1. Description of first aid measures**

- IF INHALED : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Consult a doctor if symptoms persist.
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- 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.

**SECTION 5: Firefighting-measures****5.1. Extinguishing media**

- Suitable extinguishing media : Dry chemical powder, foam or carbon dioxide
- Unsuitable extinguishing media : none

**5.2. Special hazards arising from the substance or mixture**

- For initial stage extinction, carbon dioxide or dry chemical powder.
- When a fire extends, fire is extinguished by a large amount of water spray.
- Do not discharge extinguishing waters into the aquatic environment.

**5.3. Advice for firefighters**

- In the extinction work, an appropriate protective equipment (gloves, glasses, and mask) has to be worn.
- Because during a fire, hazardous gases may be generated, fire-fighters have to wear self-contained breathing apparatus and other protective equipment.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective 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 and personal protection**

### **8.1. Control parameters**

Australian exposure standards (2018)

Ethane-1,2-diol	TWA	20ppm
1,2,3-Propanetriol	TWA	10 mg/m <sup>3</sup>

EH40/2005 Workplace exposure limits

Ethane-1,2-diol	TWA	20ppm
1,2,3-Propanetriol	TWA	10 mg/m <sup>3</sup>

ACGIH (2018)

Ethane-1,2-diol	TWA	25 ppm (V) (Vapor and Aerosol)
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### **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
Odour	: none
pH	: 8 ~ 11
Boiling point	: No data available
Flash point	: Not applicable (closed cup)
Relative Density (at 25°C)	: 1.0 ~ 1.3 (g/cm <sup>3</sup> )
Solubility in Water	: soluble

## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

No dangerous reaction known under conditions of normal use.

### **10.2. Chemical stability**

Thermally stable at typical use temperatures.

**10.3. Possibility of hazardous reactions**

No data available

**10.4. Conditions to Avoid**

High temperature, Direct sunlight, Fire

**10.5. Incompatible Materials**

No data available

**10.6. Hazardous decomposition products**

CO, CO<sub>2</sub>

**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

[1,2,3-Propanetriol]

Oral-rat LD50 >5,000 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. Toxicity** : 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. Results of PBT and vPvB assessment** : No data available

**12.6. Other adverse effects** : No data available

**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**

Determination of whether a Dangerous Good based on ADG Code criteria.

UN Numbers listed as "UN" followed by 4 digits.

Dangerous Good Classes and Labels for all Dangerous Goods.

Special Provisions listed.

Road – ADG – Australian Dangerous Goods Code (Road and Rail)

Air – IATA – International Air Transport Association

Sea – IMDG – International Maritime Dangerous Goods

**14.1. UN number** ADG, IMDG, IATA : none

**14.2. UN proper shipping name** ADG, IMDG, IATA : none

**14.3. Transport hazard class(es)** ADG, IMDG, IATA : none

**14.4. Packing group** ADG, IMDG, IATA : none

**14.5. Environmental hazards** Marine pollutant : N

**14.6. Special precautions for user** EMS Number : none

**14.7. HAZCHEM Code** : none

**SECTION 15: Regulatory information**

This product does not contain any hazardous chemical that has been determined by Montreal Protocol (Ozone depleting substances), The Stockholm Convention (Persistent Organic Pollutants), and The Rotterdam Convention (Prior Informed Consent).

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Safework Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals.

**15.2. Chemical safety assessment**

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

**SECTION 16: Other information**

**References**

Model Code of Practice	Preparation of Safety Data Sheets for Hazardous Chemicals Labelling of Workplace Hazardous Chemicals National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC: 2011 (2003)]
GHS	Globally Harmonised System of Classification and Labelling of Chemicals (GHS)
Safe Work Australia HSIS	<a href="http://hsis.safeworkaustralia.gov.au/HazardousSubstance">http://hsis.safeworkaustralia.gov.au/HazardousSubstance</a>
WES	Workplace Exposure Standards for Airborne Contaminants (2018)
ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail, 7th edition, National Transport Commission. (ADG7)



EU RoHS Directive(2011/65/EC)  
ELV Directive(2000/53/EC)

This data sheet may not be enough when evaluating danger or hazard. The above information, which is created from currently available documents, information and data, may be revised when new findings announced. This document has been written on the assumption that when dealing with a large amount of ink on the business case and emergency. When handling as a normal product, please refer to the notes that is described in the produce or packaging. The information contained herein is not intended to provide any kind of warranty other than information, there is no guarantee for the accuracy of the content.