Shachihata

Artline®
Xstamper

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 : 26th Apr. 2019

SECTION 1: Identification ; Chemical product and company identification

1.1. Product identifier

Product Name : Artline 17 INDUSTRIAL MARKER EK-17 Colour : (Black)
Artline 19 INDUSTRIAL MARKER EK-19

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

Recommended use : Permanent marker 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
Website : 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

1.4. Emergency telephone number

Poisons Information Centre : 13 11 26

SECTION 2: Hazards identification

Hazardous Substance , Dangerous Goods.
Classified as hazardous according to the criteria of Safe Work Australia (SWA - formerly NOHSC),
and 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)

Flammable liquids, Category 3	H226	: Flammable liquid and vapour
Acute toxicity (oral), Category 4	H302	: Harmful if swallowed
Acute toxicity (inhal), Category 4	H332	: Harmful if inhaled
Skin irritation, Category 2	H315	: Causes skin irritation
Serious eye damage , Category 1	H318	: Causes serious eye damage
Specific target organ toxicity - single exposure, Category 3 (respiratory tract irritation,narcotic effects)	H335	: May cause respiratory irritation
	H336	: May cause drowsiness or dizziness
Specific target organ toxicity ; repeated exposure , Category 2 (central nervous system,respiratory system)	H373	: May cause damage to organs through prolonged or repeated exposure
Aspiration hazard, Category 1	H304	: May be fatal if swallowed and enters airways

2.2. Label elements

Labelling (SWA)
Symbols :

Signal word : Danger

Hazard statement : Flammable liquid and vapour (H226)

Harmful if swallowed (H302)
Harmful if inhaled (H332)
Causes skin irritation (H315)
Causes serious eye damage (H318)
May cause respiratory irritation (H335)
May cause drowsiness or dizziness (H336)
May cause damage to organs through prolonged or repeated exposure (H373)
(central nervous system,respiratory system)
May be fatal if swallowed and enters airways (H304)

Precautionary statement

【Prevention】

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. (P210)
Take action to prevent static discharges. (P243)
Do not breathe vapours. (P260)
Wash hands thoroughly after handling. (P264)
Do not eat, drink or smoke when using this product. (P270)
Use only outdoors or in a well-ventilated area. (P271)
Wear protective gloves and eye protection . (P280)

【Response】

IF SWALLOWED : Immediately call a POISON CENTER or physician. (P301+P310)
IF ON SKIN : Wash with plenty of water and soap. (P302+P352)
IF ON SKIN (or hair) : Take off immediately all contaminated clothing. Rinse skin with water. (P303+P361+P353)
IF INHALED : Remove person to fresh air and keep comfortable for breathing. (P304+P340)
IF IN EYES : Rinse cautiously with water for several minutes. (P305+P351+P338)
Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER or physician. (P310)
Rinse mouth. (P330)
Do NOT induce vomiting. (P331)
If skin irritation occurs : Get medical advice and attention. (P332+P313)
In case of fire : Use dry chemical powder, foam or carbon dioxide to extinguish. (P370+P378)

【Storage】

Store in a well-ventilated place. Keep container tightly closed. (P403+P233)

【Disposal】

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

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
Xylene	20 ~ 30	1330-20-7	Flam. Liq. 3 Acute Tox.(dermal) 4 Acute Tox.(inhal.) 4 Skin Irrit. 2 Eye Irrit. 2A STOT. SE. 3 STOT. RE. 2 Asp.Tox. 1	H226 H312 H332 H315 H319 H335 H373 H304
Ethylbenzene	25 ~ 35	100-41-4	Flam. Liq. 2 Acute Tox.(inhal.) 4 STOT. RE. 2 Asp.Tox. 1	H225 H332 H373 H304

Butan-1-ol	15 ~ 25	71-36-3	Flam. Liq. 3 Acute Tox.(oral) 4 Skin Irrit. 2 Eye Dam. 1 STOT. SE. 3	H226 H302 H315 H318 H335+H336
Synthetic resin	5 ~ 15	Confidential	none	none
Vegetable oil	1 ~ 10	Confidential	none	none
Dyestuff	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 : Water jet

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe area. Shut off all sources of ignition.
No Flares, smoking or flame in area. Put on protective equipment. Ensure adequate ventilation.

6.2. Environmental precautions

Do not throw the leakage thing directly into environment

6.3. Methods and material for containment and cleaning up

In case of a small spill, remove by absorbing with absorbents (sawdust, soil, sand, waste cloth, etc.), and then wipe off the waste well with waste cloth, and rag.
In case of large spills, prevent leakage by enclosing with nonflammables (earth and sand, etc.) and collect into empty container by scoop, suction equipment or the like.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling : Use with adequate ventilation.
Avoid contact with skin, eyes and clothing.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep containers tightly closed and store in a cool and dry place.
Keep away from heat and flame, ignition source and sunlight.
Keep out of the reach of children.

SECTION 8: Exposure controls and personal protection

8.1. Control parameters

Australian exposure standards(2018)

Xylene	TWA	80ppm
Ethylbenzene	TWA	100ppm
Butan-1-ol	STEL	50ppm (Peak limitation)

EH40/2005 Workplace exposure limits

Xylene	TWA	50ppm
Ethylbenzene	TWA	100ppm
Butan-1-ol	STEL	50ppm

ACGIH (2018)

Xylene	TWA	100ppm
Ethylbenzene	TWA	20ppm
Butan-1-ol	TWA	20ppm

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 : solvent odour

pH : Not applicable

Boiling point : 118 ~ 136°C

Flash point : 24°C (closed cup)

Relative Density (at 25°C) : 0.9 ~ 1.0 (g/cm^3)

Solubility in Water : Insoluble

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reaction known under conditions of normal use.

10.2. 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_2

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

[xylene]

Oral-rat	LD50	>2,000 - <=5,000 mg/kg
Dermal-rabbit	LD50	>1,000 - <=2,000 mg/kg
Inhalation-rat	LC50	>10 - <=20 mg/L/4h

[ethylbenzene]

Oral-rat	LD50	>2,000 - <=5,000 mg/kg
Dermal-rabbit	LD50	>5,000 mg/kg
Inhalation-rat	LC50	>10 - <=20 mg/L/4h

[butan-1-ol]

Oral-rat	LD50	>300 - <=2,000 mg/kg
Dermal-rabbit	LD50	>2,000 mg/kg
Inhalation-rat	LC50	>20 mg/L/4h

Acute toxicity (oral)	:	Category 4	Harmful if swallowed
Acute toxicity (inhal.)	:	Category 4	Harmful if inhaled
Skin irritation	:	Category 2	Causes skin irritation
Serious eye damage	:	Category 1	Causes serious eye damage
Specific target organ toxicity ; single exposure	:	Category 3	May cause respiratory irritation May cause drowsiness or dizziness
Specific target organ toxicity ; repeated exposure	:	Category 2	May cause damage to organs through prolonged or repeated exposure (central nervous system,respiratory system)
Aspiration hazard	:	Category 1	May be fatal if swallowed and enters airways

Carcinogenicity : Regarding the carcinogenicity of ethylbenzene, International Agency for Research on Cancer (IARC) has classified as a group 2B. ACGIH(American Conference of Governmental Industrial Hygienists) has classified as a group A3. The Japan Society for Occupational Health has classified as a group 2B.

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	:	UN1210
14.2. UN proper shipping name	ADG, IMDG, IATA	:	PRINTING INK, flammable

14.3. Transport hazard class(es) ADG, IMDG, IATA :
· Class 3 (Flammable liquids)
· Label 3

14.4. Packing group ADG, IMDG, IATA : Ⅲ

14.5. Environmental hazards Marine pollutant : No

14.6. Special precautions for user EMS Number : F-E,S-D

14.7. HAZCHEM Code : 3YE (ADG7)

☆☆

Artline INDUSTRIAL MARKER (EK-17,19) is not a hazardous material by the special provision.

Artline INDUSTRIAL MARKER (EK-17,19)		(The amount of ink : less than 10ml)
UN number	:	UN3175
UN proper shipping name	:	Solids containing Flammable Liquid. n.o.s.
IATA		Special Provision A46
IMDG Code		Special Provision 216

According to IATA Special Provision A46, and IMDG Code Special Provision 216, small inner packagings consisting of sealed packets and articles containing less than 10 mL of a Class 3 liquid in Packing Group Ⅱ or Ⅲ absorbed onto a solid material are not subject to as a hazardous material/dangerous goods provided there is no free liquid in the packet or article.

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	http://hsis.safeworkaustralia.gov.au/HazardousSubstance
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.

Shachihata

Artline®
Xstamper

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 : 26th Apr. 2019

SECTION 1: Identification ; Chemical product and company identification

1.1. Product identifier

Product Name : Artline 17 INDUSTRIAL MARKER EK-17 Colour : (Blue)
Artline 19 INDUSTRIAL MARKER EK-19

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

Recommended use : Permanent marker 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
Website : 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

1.4. Emergency telephone number

Poisons Information Centre : 13 11 26

SECTION 2: Hazards identification

Hazardous Substance , Dangerous Goods.
Classified as hazardous according to the criteria of Safe Work Australia (SWA - formerly NOHSC),
and 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)

Flammable liquids, Category 3	H226	: Flammable liquid and vapour
Acute toxicity (oral), Category 4	H302	: Harmful if swallowed
Acute toxicity (inhal), Category 4	H332	: Harmful if inhaled
Skin irritation, Category 2	H315	: Causes skin irritation
Serious eye damage , Category 1	H318	: Causes serious eye damage
Specific target organ toxicity - single exposure, Category 3 (respiratory tract irritation,narcotic effects)	H335	: May cause respiratory irritation
	H336	: May cause drowsiness or dizziness
Specific target organ toxicity ; repeated exposure , Category 2 (central nervous system,respiratory system)	H373	: May cause damage to organs through prolonged or repeated exposure
Aspiration hazard, Category 1	H304	: May be fatal if swallowed and enters airways

2.2. Label elements

Labelling (SWA)
Symbols :

Signal word : Danger

Hazard statement : Flammable liquid and vapour (H226)

Harmful if swallowed (H302)
Harmful if inhaled (H332)
Causes skin irritation (H315)
Causes serious eye damage (H318)
May cause respiratory irritation (H335)
May cause drowsiness or dizziness (H336)
May cause damage to organs through prolonged or repeated exposure (H373)
(central nervous system,respiratory system)
May be fatal if swallowed and enters airways (H304)

Precautionary statement

【Prevention】

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. (P210)
Take action to prevent static discharges. (P243)
Do not breathe vapours. (P260)
Wash hands thoroughly after handling. (P264)
Do not eat, drink or smoke when using this product. (P270)
Use only outdoors or in a well-ventilated area. (P271)
Wear protective gloves and eye protection . (P280)

【Response】

IF SWALLOWED : Immediately call a POISON CENTER or physician. (P301+P310)
IF ON SKIN : Wash with plenty of water and soap. (P302+P352)
IF ON SKIN (or hair) : Take off immediately all contaminated clothing. Rinse skin with water. (P303+P361+P353)
IF INHALED : Remove person to fresh air and keep comfortable for breathing. (P304+P340)
IF IN EYES : Rinse cautiously with water for several minutes. (P305+P351+P338)
Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER or physician. (P310)
Rinse mouth. (P330)
Do NOT induce vomiting. (P331)
If skin irritation occurs : Get medical advice and attention. (P332+P313)
In case of fire : Use dry chemical powder, foam or carbon dioxide to extinguish. (P370+P378)

【Storage】

Store in a well-ventilated place. Keep container tightly closed. (P403+P233)

【Disposal】

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

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
Xylene	20 ~ 30	1330-20-7	Flam. Liq. 3 Acute Tox.(dermal) 4 Acute Tox.(inhal.) 4 Skin Irrit. 2 Eye Irrit. 2A STOT. SE. 3 STOT. RE. 2 Asp.Tox. 1	H226 H312 H332 H315 H319 H335 H373 H304
Ethylbenzene	25 ~ 35	100-41-4	Flam. Liq. 2 Acute Tox.(inhal.) 4 STOT. RE. 2 Asp.Tox. 1	H225 H332 H373 H304

Butan-1-ol	15 ~ 25	71-36-3	Flam. Liq. 3 Acute Tox.(oral) 4 Skin Irrit. 2 Eye Dam. 1 STOT. SE. 3	H226 H302 H315 H318 H335+H336
Synthetic resin	15 ~ 25	Confidential	none	none
Dyestuff	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.

SECTION 5: Firefighting-measures

5.1. Extinguishing media

Suitable extinguishing media : Dry chemical powder, foam or carbon dioxide

Unsuitable extinguishing media : Water jet

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe area. Shut off all sources of ignition.
No Flares, smoking or flame in area. Put on protective equipment. Ensure adequate ventilation.

6.2. Environmental precautions

Do not throw the leakage thing directly into environment

6.3. Methods and material for containment and cleaning up

In case of a small spill, remove by absorbing with absorbents (sawdust, soil, sand, waste cloth, etc.), and then wipe off the waste well with waste cloth, and rag.
In case of large spills, prevent leakage by enclosing with nonflammables (earth and sand, etc.) and collect into empty container by scoop, suction equipment or the like.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling : Use with adequate ventilation.
Avoid contact with skin, eyes and clothing.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep containers tightly closed and store in a cool and dry place.
Keep away from heat and flame, ignition source and sunlight.
Keep out of the reach of children.

SECTION 8: Exposure controls and personal protection

8.1. Control parameters

Australian exposure standards(2018)

Xylene	TWA	80ppm
Ethylbenzene	TWA	100ppm
Butan-1-ol	STEL	50ppm (Peak limitation)

EH40/2005 Workplace exposure limits

Xylene	TWA	50ppm
Ethylbenzene	TWA	100ppm
Butan-1-ol	STEL	50ppm

ACGIH (2018)

Xylene	TWA	100ppm
Ethylbenzene	TWA	20ppm
Butan-1-ol	TWA	20ppm

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 : solvent odour

pH : Not applicable

Boiling point : 118 ~ 136°C

Flash point : 24°C (closed cup)

Relative Density (at 25°C) : 0.9 ~ 1.0 (g/cm^3)

Solubility in Water : Insoluble

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reaction known under conditions of normal use.

10.2. 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_2

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

[xylene]

Oral-rat	LD50	>2,000 - <=5,000 mg/kg
Dermal-rabbit	LD50	>1,000 - <=2,000 mg/kg
Inhalation-rat	LC50	>10 - <=20 mg/L/4h

[ethylbenzene]

Oral-rat	LD50	>2,000 - <=5,000 mg/kg
Dermal-rabbit	LD50	>5,000 mg/kg
Inhalation-rat	LC50	>10 - <=20 mg/L/4h

[butan-1-ol]

Oral-rat	LD50	>300 - <=2,000 mg/kg
Dermal-rabbit	LD50	>2,000 mg/kg
Inhalation-rat	LC50	>20 mg/L/4h

Acute toxicity (oral)	:	Category 4	Harmful if swallowed
Acute toxicity (inhal.)	:	Category 4	Harmful if inhaled
Skin irritation	:	Category 2	Causes skin irritation
Serious eye damage	:	Category 1	Causes serious eye damage
Specific target organ toxicity ; single exposure	:	Category 3	May cause respiratory irritation May cause drowsiness or dizziness
Specific target organ toxicity ; repeated exposure	:	Category 2	May cause damage to organs through prolonged or repeated exposure (central nervous system,respiratory system)
Aspiration hazard	:	Category 1	May be fatal if swallowed and enters airways

Carcinogenicity : Regarding the carcinogenicity of ethylbenzene, International Agency for Research on Cancer (IARC) has classified as a group 2B. ACGIH(American Conference of Governmental Industrial Hygienists) has classified as a group A3. The Japan Society for Occupational Health has classified as a group 2B.

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	:	UN1210
14.2. UN proper shipping name	ADG, IMDG, IATA	:	PRINTING INK, flammable

14.3. Transport hazard class(es) ADG, IMDG, IATA :
· Class 3 (Flammable liquids)
· Label 3

14.4. Packing group ADG, IMDG, IATA : Ⅲ

14.5. Environmental hazards Marine pollutant : No

14.6. Special precautions for user EMS Number : F-E,S-D

14.7. HAZCHEM Code : 3YE (ADG7)

☆☆

Artline INDUSTRIAL MARKER (EK-17,19) is not a hazardous material by the special provision.

Artline INDUSTRIAL MARKER (EK-17,19) (The amount of ink : less than 10ml)

UN number	:	UN3175
UN proper shipping name	:	Solids containing Flammable Liquid. n.o.s.
IATA		Special Provision A46
IMDG Code		Special Provision 216

According to IATA Special Provision A46, and IMDG Code Special Provision 216, small inner packagings consisting of sealed packets and articles containing less than 10 mL of a Class 3 liquid in Packing Group Ⅱ or Ⅲ absorbed onto a solid material are not subject to as a hazardous material/dangerous goods provided there is no free liquid in the packet or article.

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	http://hsis.safeworkaustralia.gov.au/HazardousSubstance
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.

Shachihata

Artline®

Xstamper

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 : 26th Apr. 2019

SECTION 1: Identification ; Chemical product and company identification

1.1. Product identifier

Product Name : Artline 17 INDUSTRIAL MARKER EK-17 Colour : (Red)

Artline 19 INDUSTRIAL MARKER EK-19

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

Recommended use : Permanent marker 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
Website : 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

1.4. Emergency telephone number

Poisons Information Centre : 13 11 26

SECTION 2: Hazards identification

Hazardous Substance , Dangerous Goods.
Classified as hazardous according to the criteria of Safe Work Australia (SWA - formerly NOHSC),
and 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)

Flammable liquids, Category 3	H226	: Flammable liquid and vapour
Acute toxicity (oral), Category 4	H302	: Harmful if swallowed
Acute toxicity (inhal), Category 4	H332	: Harmful if inhaled
Skin irritation, Category 2	H315	: Causes skin irritation
Serious eye damage , Category 1	H318	: Causes serious eye damage
Specific target organ toxicity - single exposure, Category 3 (respiratory tract irritation,narcotic effects)	H335	: May cause respiratory irritation
	H336	: May cause drowsiness or dizziness
Specific target organ toxicity ; repeated exposure , Category 2 (central nervous system,respiratory system)	H373	: May cause damage to organs through prolonged or repeated exposure
Aspiration hazard, Category 1	H304	: May be fatal if swallowed and enters airways

2.2. Label elements

Labelling (SWA)

Symbols :

Signal word : Danger

Hazard statement : Flammable liquid and vapour (H226)

Harmful if swallowed (H302)
Harmful if inhaled (H332)
Causes skin irritation (H315)
Causes serious eye damage (H318)
May cause respiratory irritation (H335)
May cause drowsiness or dizziness (H336)
May cause damage to organs through prolonged or repeated exposure (H373)
(central nervous system,respiratory system)
May be fatal if swallowed and enters airways (H304)

Precautionary statement

【Prevention】

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. (P210)
Take action to prevent static discharges. (P243)
Do not breathe vapours. (P260)
Wash hands thoroughly after handling. (P264)
Do not eat, drink or smoke when using this product. (P270)
Use only outdoors or in a well-ventilated area. (P271)
Wear protective gloves and eye protection . (P280)

【Response】

IF SWALLOWED : Immediately call a POISON CENTER or physician. (P301+P310)
IF ON SKIN : Wash with plenty of water and soap. (P302+P352)
IF ON SKIN (or hair) : Take off immediately all contaminated clothing. Rinse skin with water. (P303+P361+P353)
IF INHALED : Remove person to fresh air and keep comfortable for breathing. (P304+P340)
IF IN EYES : Rinse cautiously with water for several minutes. (P305+P351+P338)
Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER or physician. (P310)
Rinse mouth. (P330)
Do NOT induce vomiting. (P331)
If skin irritation occurs : Get medical advice and attention. (P332+P313)
In case of fire : Use dry chemical powder, foam or carbon dioxide to extinguish. (P370+P378)

【Storage】

Store in a well-ventilated place. Keep container tightly closed. (P403+P233)

【Disposal】

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

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
Xylene	20 ~ 30	1330-20-7	Flam. Liq. 3 Acute Tox.(dermal) 4 Acute Tox.(inhal.) 4 Skin Irrit. 2 Eye Irrit. 2A STOT. SE. 3 STOT. RE. 2 Asp.Tox. 1	H226 H312 H332 H315 H319 H335 H373 H304
Ethylbenzene	25 ~ 35	100-41-4	Flam. Liq. 2 Acute Tox.(inhal.) 4 STOT. RE. 2 Asp.Tox. 1	H225 H332 H373 H304

Butan-1-ol	15 ~ 25	71-36-3	Flam. Liq. 3 Acute Tox.(oral) 4 Skin Irrit. 2 Eye Dam. 1 STOT. SE. 3	H226 H302 H315 H318 H335+H336
Synthetic resin	10 ~ 20	Confidential	none	none
Dyestuff	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 : Water jet

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe area. Shut off all sources of ignition.
No Flares, smoking or flame in area. Put on protective equipment. Ensure adequate ventilation.

6.2. Environmental precautions

Do not throw the leakage thing directly into environment

6.3. Methods and material for containment and cleaning up

In case of a small spill, remove by absorbing with absorbents (sawdust, soil, sand, waste cloth, etc.), and then wipe off the waste well with waste cloth, and rag.
In case of large spills, prevent leakage by enclosing with nonflammables (earth and sand, etc.) and collect into empty container by scoop, suction equipment or the like.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling : Use with adequate ventilation.
Avoid contact with skin, eyes and clothing.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep containers tightly closed and store in a cool and dry place.
Keep away from heat and flame, ignition source and sunlight.
Keep out of the reach of children.

SECTION 8: Exposure controls and personal protection

8.1. Control parameters

Australian exposure standards(2018)

Xylene	TWA	80ppm
Ethylbenzene	TWA	100ppm
Butan-1-ol	STEL	50ppm (Peak limitation)

EH40/2005 Workplace exposure limits

Xylene	TWA	50ppm
Ethylbenzene	TWA	100ppm
Butan-1-ol	STEL	50ppm

ACGIH (2018)

Xylene	TWA	100ppm
Ethylbenzene	TWA	20ppm
Butan-1-ol	TWA	20ppm

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 : solvent odour

pH : Not applicable

Boiling point : 118 ~ 136°C

Flash point : 24°C (closed cup)

Relative Density (at 25°C) : 0.9 ~ 1.0 (g/cm^3)

Solubility in Water : Insoluble

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reaction known under conditions of normal use.

10.2. 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_2

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

[xylene]

Oral-rat	LD50	>2,000 - <=5,000 mg/kg
Dermal-rabbit	LD50	>1,000 - <=2,000 mg/kg
Inhalation-rat	LC50	>10 - <=20 mg/L/4h

[ethylbenzene]

Oral-rat	LD50	>2,000 - <=5,000 mg/kg
Dermal-rabbit	LD50	>5,000 mg/kg
Inhalation-rat	LC50	>10 - <=20 mg/L/4h

[butan-1-ol]

Oral-rat	LD50	>300 - <=2,000 mg/kg
Dermal-rabbit	LD50	>2,000 mg/kg
Inhalation-rat	LC50	>20 mg/L/4h

Acute toxicity (oral)	:	Category 4	Harmful if swallowed
Acute toxicity (inhal.)	:	Category 4	Harmful if inhaled
Skin irritation	:	Category 2	Causes skin irritation
Serious eye damage	:	Category 1	Causes serious eye damage
Specific target organ toxicity ; single exposure	:	Category 3	May cause respiratory irritation May cause drowsiness or dizziness
Specific target organ toxicity ; repeated exposure	:	Category 2	May cause damage to organs through prolonged or repeated exposure (central nervous system,respiratory system)
Aspiration hazard	:	Category 1	May be fatal if swallowed and enters airways

Carcinogenicity : Regarding the carcinogenicity of ethylbenzene, International Agency for Research on Cancer (IARC) has classified as a group 2B. ACGIH(American Conference of Governmental Industrial Hygienists) has classified as a group A3. The Japan Society for Occupational Health has classified as a group 2B.

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	:	UN1210
14.2. UN proper shipping name	ADG, IMDG, IATA	:	PRINTING INK, flammable

14.3. Transport hazard class(es) ADG, IMDG, IATA :
· Class 3 (Flammable liquids)
· Label 3

14.4. Packing group ADG, IMDG, IATA : Ⅲ

14.5. Environmental hazards Marine pollutant : No

14.6. Special precautions for user EMS Number : F-E,S-D

14.7. HAZCHEM Code : 3YE (ADG7)

☆☆

Artline INDUSTRIAL MARKER (EK-17,19) is not a hazardous material by the special provision.

Artline INDUSTRIAL MARKER (EK-17,19)		(The amount of ink : less than 10ml)
UN number	:	UN3175
UN proper shipping name	:	Solids containing Flammable Liquid. n.o.s.
IATA		Special Provision A46
IMDG Code		Special Provision 216

According to IATA Special Provision A46, and IMDG Code Special Provision 216, small inner packagings consisting of sealed packets and articles containing less than 10 mL of a Class 3 liquid in Packing Group Ⅱ or Ⅲ absorbed onto a solid material are not subject to as a hazardous material/dangerous goods provided there is no free liquid in the packet or article.

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	http://hsis.safeworkaustralia.gov.au/HazardousSubstance
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.