



Safety Data Sheet

according to Safe Work Australia document

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



Issued Date : 02.11.2015

Revised Date :

SECTION 1: Identification ; Chemical product and company identification

1.1. Product identifier

Product Name : Artline Supreme Permanent Marker Color : (Red)
EPF-700

1.2. Recommended use of the chemical and restrictions on use

Recommended use : Permanent marker ink

1.3. Details of the supplier and manufacturer

[Australia]

Supplier Company Name : Pelikan Artline Pty Limited
Address : 2 Coronation Ave Kings Park NSW 2148
Phone : 02 9674 0900
Fax : 02 9674 0910
URL : <http://www.pelikanartline.com.au/>

[Japan]

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 phone number

[Australia] 02-9674-0900 or Mobile: 0423-782-595

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 2 H225 : Highly flammable liquid and vapour
Serious eye damage /eye irritation, Category 1 H318 : Causes serious eye damage

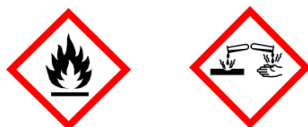
2.1.2. Classification (NOHSC:2011(2003))

Classification	R-Phrase
F; R11 - Xn; R20/22 - Xi; R37-41-67	R11 : Highly flammable.
	R20/22 : Harmful by inhalation and if swallowed.
	R37 : Irritating to respiratory system.
	R41 : Risk of serious damage to eyes.
	R67 : Vapours may cause drowsiness and dizziness.

2.2. Label elements

Labelling (SWA)

Hazard pictograms :



Signal word : Danger

Hazard statement : Highly flammable liquid and vapour (H225)
Causes serious eye damage (H318)

Precautionary statement**【Prevention】**

- Keep away from heat/sparks/open flames/hot surfaces. - No smoking. (P210)
- Take precautionary measures against static discharge. (P243)
- Wear protective gloves/protective clothing/eye protection/face protection. (P280)
- Use only outdoors or in a well-ventilated area. (P271)
- Wash hands thoroughly after handling. (P264)

【Response】

- In case of fire : Use dry chemical powder, form or carbon dioxide for extinction. (P370+P378)
- IF INHALED : Remove victim to fresh air and keep at rest in a position 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.
- If eye irritation persists : Get medical advice/attention. (P337+P313)
- IF ON SKIN (or hair) : Remove/Take off immediately all contaminated clothing. (P303+P361+P353)
- Rinse skin with water/shower.
- If skin irritation occurs : Get medical advice/attention. (P332+P313)
- IF SWALLOWED : Get medical advice/attention if you feel unwell. Rinse mouth. (P301+P314+P330)

【Storage】

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

【Disposal】

- Dispose of contents/container to waste in accordance with (P501)
- local/regional/ national/international regulation (to be specified).

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

Ingredients :

Chemical Name / Generic name	CAS-No. Index	Classification (NOHSC:2011(2003))	Classification GHS (SWA)	Composition weight %
Ethyl alcohol	64-17-5	F; R11	Flam. Liq. 2 ; H225	50 ~ 60
Propan-1-ol	71-23-8	F; R11 Xi; R41-R67	Flam. Liq. 2 ; H225 Eye Dam. 1 ; H318 STOT SE 3 ; H336	5 ~ 15
Ethyl lactate	97-64-3	R10 Xi; R37-41	Flam. Liq. 3 ; H226 Eye Dam. 1 ; H318 STOT SE 3 ; H335	10 ~ 20
Benzyl alcohol	100-51-6	Xn; R20/22	Acute Tox. 4 ; H332 Acute Tox. 4 ; H302	1 ~ 5
Synthetic resin (Polymers)	Confidential	none	none	5 ~ 15
Dyestuff	Confidential	none	none	5 ~ 10
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 : 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(2013)

Ethyl alcohol	TWA	1000ppm
Propan-1-ol	TWA	200ppm

EH40/2005 Workplace exposure limits

Ethyl alcohol	TWA	1000ppm
Propan-1-ol	TWA	200ppm

ACGIH (2013)

Ethyl alcohol	STEL	1000ppm
Propan-1-ol	TWA	100ppm

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	: minor solvent odour
pH	: Not applicable
Boiling point	: No data available
Flash point	: 16.5 °C (closed cup)
Relative Density (at 25 °C)	: 0.85 - 0.95 (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, CO₂

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: LD/LC50 values that are relevant for classification		
	[Ethyl alcohol]		
	Oral-rat	LD50	7,060mg/kg
	Inhalation-rat	LC50	20,000ppm/10h
	[Propan-1-ol]		
	Oral-rat	LD50	1,870mg/kg
	Dermal-rabbit	LD50	4,060mg/kg
	Inhalation-rat	LC50	4,000mg/l/4H
	[Ethyl lactate]		
	Oral-rat	LD50	2,500mg/kg
	Inhalation-rat	LC50	>5,400mg/m ³ /8H
	[Benzyl alcohol]		
	Oral-rat	LD50	1,610mg/kg
	Dermal-rabbit	LD50	2,000mg/kg
	Inhalation-rat	LC50	>4,178mg/l/4H

Serious eye damage /eye irritation : Category 1 Causes serious eye damage

Carcinogenicity : Not listed by IARC, EPA, EU, 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 data available

SECTION 13: Disposal considerations

13.1. Disposal 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	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	: <div> <div>• Class</div> <div>3 (Flammable liquids.)</div> <div>• Label</div> <div>3</div> </div>
14.4. Packing group	ADG, IMDG, IATA	: II
14.5. Environmental hazards	Marine pollutant	: No
14.6. Special precautions for user	EMS Number	: F-E,S-D
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code		: Not applicable.
14.8. HAZCHEM Code		: 3YE (ADG7)



☆☆

Artline Supreme Permanent Marker (EPF-700) is not a hazardous material by the special provision.

Artline Supreme Permanent Marker (EPF-700) (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
ADG	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).

< GHS Information ; Safe Work Australia>

Substance name	: [Ethyl alcohol]
Hazard Class & Category	: Flammable liquids, Category 2
Symbols	: GHS02
Signal word	: Danger
Hazard statements	: H225 Highly flammable liquid and vapour
Substance name	: [Propan-1-ol]
Hazard Class & Category	: Flammable liquids, Category 2 Eye irritation,Category1 Specific target organ toxicity - single exposure, Category 3
Symbols	: GHS02,GHS07,GHS05
Signal word	: Danger
Hazard statements	: H225 Highly flammable liquid and vapour H318 Causes serious eye damage H336 May cause drowsiness or dizziness
Substance name	: [Ethyl lactate]
Hazard Class & Category	: Flammable liquids, Category 3 Eye irritation,Category 1 Specific target organ toxicity - single exposure, Category 3
Symbols	: GHS02,GHS07,GHS05
Signal word	: Danger
Hazard statements	: H226 Flammable liquid and vapour H318 Causes serious eye damage H335 May cause respiratory irritation
Substance name	: [Benzyl alcohol]
Hazard Class & Category	: Acute toxicity - Oral,Category 4 Acute toxicity - Inhalation,Category 4

Symbols : GHS07
 Signal word : Warning
 Hazard statements : H302 Harmful if swallowed
 H332 Harmful if inhaled

< NOHSC:2011(2003) Information >

Hazard designation

Substance name : [Ethyl alcohol]
 Classification : F; R11
 R-Phrase : R11 Highly flammable.
 S-Phrase : S2 Keep out of the reach of children.
 S7 Keep container tightly closed.
 S16 Keep away from sources of ignition - No smoking.

Symbols and indications of danger specific F : Highly flammable

Substance name : [Propan-1-ol]
 Classification : F; R11 - Xi; R41 - R67
 R-Phrase : R11 Highly flammable.
 R41 Risk of serious damage to eyes.
 R67 Vapours may cause drowsiness and dizziness.
 S-Phrase : S2 Keep out of the reach of children.
 S7 Keep container tightly closed.
 S16 Keep away from sources of ignition - No smoking.
 S24 Avoid contact with skin.
 S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S39 Wear eye/face protection.

Symbols and indications of danger specific F : Highly flammable Xi : Irritant

Substance name : [Ethyl lactate]
 Classification : R10 - Xi; R37-41
 R-Phrase : R10 Flammable.
 R37 Irritating to respiratory system.
 R41 Risk of serious damage to eyes.
 S-Phrase : S2 Keep out of the reach of children.
 S24 Avoid contact with skin.
 S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S39 Wear eye/face protection.

Symbols and indications of danger specific Xi : Irritant

Substance name : [Benzyl alcohol]
 Classification : Xn; R20/22
 R-Phrase : R20/22 Harmful by inhalation and if swallowed.
 S-Phrase : S2 Keep out of the reach of children.
 S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Symbols and indications of danger specific Xn : Harmful

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 (2013)
ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail, 7th edition, National Transport Commission. (ADG7)



EU RoHS Directive(2002/95/EC) and ELV Directive(2000/53/EC)
This product not contain lead, mercury, cadmium, hexavalent chromium,
polybrominated biphenyls (PBB) or polybrominated diphenylethers (PBDE).

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