## Safety Data Sheet

according to Safe Work Australia document

＂Model Code of Practice ：Preparation of safety data sheets for hazardous chemicals＂
Issued Date： 19 July 2013
Revised Date ： 13 December， 2023

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

## 1．1．Product identifier

Product Name ：Artline Opaque Ink Board Marker Colour ：（Blue） EPD－4

Arline dry－wipe erasable
Opaque Ink board Marker
1．2．Relevant identified uses of the substance or mixture and uses advised against
Recommended use
：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 | 0296740900 （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 | Schedule |
|  | Phone | ＋81－52－521－3600 | Mandil： 13. |
|  | Fax | ＋81－52－521－3899 |  |
|  | Contact | https：／／www．artlineworld．com／contact／ |  |

Poisons Information Centre ： 131126

## 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
Serious eye damage，Category 1
Specific target organ toxicity ；single exposure，Category 3
（narcotic effects）

H225 ：Highly flammable liquid and vapour
H318 ：Causes serious eye damage
H336 ：May cause drowsiness or dizziness

## 2．2．Label elements

Labelling（SWA）
Symbols



| Signal word | ：Danger |  |
| :--- | :--- | :--- |
| Hazard statement | ：Highly flammable liquid and vapour |  |
|  | Causes serious eye damage | （H225） |
|  | May cause drowsiness or dizziness | （H318） |
|  | （H336） |  |

Precautionary statement
【Prevention】
Keep out of reach of children．
Keep away from heat，hot surfaces，sparks，open flames and other ignition sources．No smoking．

```
Avoid breathing vapours．
Use only outdoors or in a well－ventilated area．
Wear eye protection．
【Response】
In case of fire ：Use dry chemical powder，foam or carbon dioxide to extinguish．（P370＋P378）
IF INHALED ：Remove person to fresh air and keep comfortable for breathing．
IF IN EYES ：Rinse cautiously with water for several minutes．
Remove contact lenses，if present and easy to do．Continue rinsing．
If eye irritation persists ：Get medical advice and attention．
（P337＋P313）
Immediately call a POISON CENTER or physician．
IF ON SKIN（or hair）：Take off immediately all contaminated clothing．Rinse skin with water．
（P310）
If skin irritation occurs ：Get medical advice and attention．
【Storage】
Store in a well－ventilated place．Keep container tightly closed．
【Disposal】
Dispose of contents and container in accordance with local regulations．

\section*{2．3．Other hazards}

No information available．

\section*{SECTION 3：Composition／information on ingredients}

Ingredients ：
\begin{tabular}{|c|c|c|c|c|}
\hline Chemical Name／ Generic name & Composition weight \％ & \begin{tabular}{l}
CAS \\
Registry No．
\end{tabular} & Hazard Class （category） & Hazard statement \\
\hline Ethyl alcohol & \(40 \sim 50\) & 64－17－5 & Flam．Liq． 2 & H225 \\
\hline Propan－1－ol & \(10 \sim 20\) & 71－23－8 & \begin{tabular}{l}
Flam．Liq． 2 \\
Eye Dam． 1 \\
STOT．SE． 3
\end{tabular} & \[
\begin{aligned}
& \mathrm{H} 225 \\
& \text { H318 } \\
& \text { H336 }
\end{aligned}
\] \\
\hline Butan－1－ol & \(1 \sim 10\) & 71－36－3 & Flam．Liq． 3 Acute Tox．（oral） 4 Skin Irrit． 2 Eye Dam． 1 STOT．SE． 3 & \[
\begin{gathered}
\text { H226 } \\
\text { H302 } \\
\text { H315 } \\
\text { H318 } \\
\text { H335+H336 }
\end{gathered}
\] \\
\hline Propan－2－ol & \(1 \sim 5\) & 67－63－0 & \begin{tabular}{l}
Flam．Liq． 2 \\
Eye Irrit．2A \\
STOT．SE． 3
\end{tabular} & \[
\begin{aligned}
& \text { H225 } \\
& \text { H319 } \\
& \text { H336 }
\end{aligned}
\] \\
\hline Titanium dioxide & \(1 \sim 5\) & 13463－67－7 & none & none \\
\hline Pigment & \(5 \sim 15\) & Confidential & none & none \\
\hline Synthetic resin & \(1 \sim 10\) & Confidential & none & none \\
\hline Others & \(10 \sim 20\) & Confidential & none & none \\
\hline total & 100 & & & \\
\hline
\end{tabular}

\section*{SECTION 4：First－aid measures}

\section*{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．

\subsection*{5.1. Extinguishing media}

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

\subsection*{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.

\subsection*{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*{SECTION 6: Accidental release measures}

\subsection*{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.

\subsection*{6.2. Environmental precautions}

Do not throw the leakage thing directly into environment

\subsection*{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*{SECTION 7: Handling and storage}

\subsection*{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*{SECTION 8: Exposure controls and personal protection}
\begin{tabular}{|c|c|c|}
\hline \multicolumn{3}{|l|}{8.1. Control parameters} \\
\hline \multicolumn{3}{|l|}{Australian exposure standards (2019)} \\
\hline Ethyl alcohol & TWA & 1,000 ppm \\
\hline Propan-1-ol & TWA & 200 ppm \\
\hline Propan-2-ol & TWA & 400 ppm \\
\hline Butan-1-ol & TWA & 50 ppm \\
\hline Titanium dioxide & TWA & \(10 \mathrm{mg} / \mathrm{m}^{3}\) \\
\hline \multicolumn{3}{|l|}{EH40/2005 Workplace exposure limits (Fourth Edition, published 2020)} \\
\hline Ethyl alcohol & TWA & 1,000 ppm \\
\hline Propan-1-ol & TWA & 200 ppm \\
\hline Propan-2-ol & TWA & 400 ppm \\
\hline Butan-1-ol & STEL & 50 ppm \\
\hline Titanium dioxide & TWA & \(10 \mathrm{mg} / \mathrm{m}^{3}\) \\
\hline \multicolumn{3}{|l|}{ACGIH (2019)} \\
\hline Ethyl alcohol & STEL & 1,000 ppm \\
\hline Propan-1-ol & TWA & 100 ppm \\
\hline Propan-2-ol & TWA & 200 ppm \\
\hline Butan-1-ol & TWA & 20 ppm \\
\hline Titanium dioxide & TWA & \(10 \mathrm{mg} / \mathrm{m}^{3}\) \\
\hline
\end{tabular}

\subsection*{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*{SECTION 9: Physical and chemical properties}
9.1 Information on basic physical and chemical properties
\begin{tabular}{ll} 
Appearance & \(:\) Blue liquid \\
Odour & \(:\) Minor solvent odour \\
\(\mathbf{p H}\) & \(:\) Not applicable \\
Boiling point & \(: 78 \sim 118^{\circ} \mathrm{C}\) \\
Flash point & \(: 17^{\circ} \mathrm{C}\) (closed cup) \\
Relative Density (at \(\left.\mathbf{2 5}^{\circ} \mathrm{C}\right)\) & \(: 0.8 \sim 1.0\left(\mathrm{~g} / \mathrm{cm}^{3}\right)\) \\
Solubility in Water & \(:\) Insoluble
\end{tabular}

\section*{SECTION 10: Stability and reactivity}
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10.1. Reactivity
No dangerous reaction known under conditions of normal use.

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\subsection*{10.2. Chemical stability}
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Thermally stable at typical use temperatures.

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\subsection*{10.3. Possibility of hazardous reactions}
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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 $\mathrm{CO}, \mathrm{CO}_{2}$

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\section*{SECTION 11: Toxicological information}
\begin{tabular}{|c|c|c|c|}
\hline Acute toxicity & \multicolumn{3}{|l|}{LD/LC50 values that are relevant for classification [Ethyl alcohol]} \\
\hline & Oral-rat & LD50 & \(>5,000 \mathrm{mg} / \mathrm{kg}\) \\
\hline & Inhalation-rat [Propan-1-ol] & LC50 & >20 mg/L/4h \\
\hline & Oral-rat & LD50 & >2,000 mg/kg \\
\hline & Dermal-rabbit & LD50 & >2,000 mg/kg \\
\hline & Inhalation-rat [Propan-2-ol] & LC50 & >20 mg/L/4h \\
\hline & Oral-rat & LD50 & >5,000 mg/kg \\
\hline & Dermal-rabbit & LD50 & \(>5,000 \mathrm{mg} / \mathrm{kg}\) \\
\hline & Inhalation-rat & LC50 & >20 mg/L/4h \\
\hline & [Butan-1-ol] & & \\
\hline & Oral-rat & LD50 & >300-<=2,000 mg/kg \\
\hline & Dermal-rabbit & LD50 & \(>2,000 \mathrm{mg} / \mathrm{kg}\) \\
\hline & Inhalation-rat & LC50 & >20 mg/L/4h \\
\hline
\end{tabular}

Specific target organ toxicity : Category 3 May cause drowsiness or dizziness (single exposure)
Carcinogenicity : Titanium dioxide has been classified by the IARC as Group 2B. Other materials ; Not contain any component that is considered a human carcinogen by IARC, ACGIH, EPA, EU or NTP.

Regarding the carcinogenicity of titanium dioxide, International Agency for Research on Cancer (IARC) has classified as a group 2B. However, ACGIH (American Conference of Governmental Industrial Hygienists), EPA (Environmental Protection Agency), EU (European Chemicals Agency), NTP (National Toxicology Program, USA) in the classification of suspected carcinogenic to humans has not been done. Therefore, as the ink product we could not classify the carcinogenicity of GHS from that there is no sufficient data

\section*{SECTION 12: Ecological information}
12.1. Toxicity
12.2. Persistence and degradability
12.3. Bioaccumulative potential
12.4. Mobility in soil
12.5. Results of PBT and vPvB assessment
12.6. Other adverse effects
: No data available
: No data available
: No data available
: No data available
: No data available
: No data available

\section*{SECTION 13: Disposal considerations}

\subsection*{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*{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
14.2. UN proper shipping name
14.3. Transport hazard class(es)

ADG, IMDG, IATA : UN1210
ADG, IMDG, IATA : PRINTING INK, flammable
ADG, IMDG, IATA
- Class 3 (Flammable liquids)

ADG, IMDG, IATA : II
Marine pollutant : No
EMS Number : F-E,S-D
14.6. Special precautions for user
14.7. HAZCHEM Code


\subsection*{14.5. Environmental hazards}
14.7. HAZCHEM Code

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.

\subsection*{15.2. Chemical safety assessment}

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

\section*{SECTION 16: Other information}

\section*{References}

Model Code of Practice
[(AU) SWA][Shachihata Inc.] [EPD-4_blue_e] 6/6
\begin{tabular}{|l|l|} 
& Labelling of Workplace Hazardous Chemicals \\
\hline GHS & Globally Harmonised System of Classification and Labelling of Chemicals \\
\hline Safe Work Australia HSIS & http://hsis.safeworkaustralia.gov.au/HazardousSubstance \\
\hline WES & Workplace Exposure Standards for Airborne Contaminants (2019) \\
\hline ADG Code & Australian Code for the Transport of Dangerous Goods by Road \& Rail Edition 7.6, 2018 \\
\hline
\end{tabular}

RoHS
ELV
compliant

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.

\title{
Safety Data Sheet
}

\author{
according to Safe Work Australia document
}
＂Model Code of Practice ：Preparation of safety data sheets for hazardous chemicals＂
Issued Date： 19 July 2013
Revised Date ： 13 December， 2023

\section*{SECTION 1：Identification ；Chemical product and company identification}

\section*{1．1．Product identifier}

Product Name ：Artline Opaque Ink Board Marker
Colour ：（Fluoro．green）
```

EPD-4

```

\title{
1．2．Relevant identified uses of the substance or mixture and uses advised against \\ Recommended use \\ ：Marker ink
}

\section*{1．3．Details of the supplier of the safety data sheet}
\begin{tabular}{|c|c|c|c|}
\hline Supplier & Company Name & ACCO Brands Australia Pty Ltd & \\
\hline & Address & 2 Coronation Avenue，Kings Park， 2148 NSW，Australia & \\
\hline & Phone & 0296740900 （9am to 5pm AEST，Monday to Friday） & \\
\hline & Contact（e－mail） & sds．anz＠acco．com & \\
\hline & Website & www．accobrands．com．au & \\
\hline Manufacturer & Company Name & ：Shachihata Inc． & \\
\hline & Address & ：4－69，Amazuka－cho，Nishi－ku，Nagoya City，451－0021，Japan & cheoule \\
\hline & Phone & ：＋81－52－521－3600 &  \\
\hline & Fax & ＋81－52－521－3899 & \\
\hline & Contact & https：／／www．artlineworld．com／contact／ & \\
\hline
\end{tabular}

Poisons Information Centre ： 131126

\section*{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．

\section*{2．1．Classification of the substance or mixture}

\section*{2．1．1．Classification（SWA）}

Flammable liquids，Category 2
Serious eye damage，Category 1
Specific target organ toxicity ；single exposure，Category 3
（narcotic effects）

H225 ：Highly flammable liquid and vapour
H318 ：Causes serious eye damage
H336 ：May cause drowsiness or dizziness

\section*{2．2．Label elements}

Labelling（SWA）
Symbols


\begin{tabular}{lll} 
Signal word & ：Danger & \\
Hazard statement & ：Highly flammable liquid and vapour & \\
& Causes serious eye damage & （H225） \\
& May cause drowsiness or dizziness & （H318） \\
& （H336）
\end{tabular}

Precautionary statement
【Prevention】
Keep out of reach of children．
Keep away from heat，hot surfaces，sparks，open flames and other ignition sources．No smoking．
```

Avoid breathing vapours．
Use only outdoors or in a well－ventilated area．
Wear eye protection．
【Response】
In case of fire ：Use dry chemical powder，foam or carbon dioxide to extinguish
IF INHALED ：Remove person to fresh air and keep comfortable for breathing．
IF IN EYES ：Rinse cautiously with water for several minutes．
Remove contact lenses，if present and easy to do．Continue rinsing．
If eye irritation persists ：Get medical advice and attention．
Immediately call a POISON CENTER or physician．
IF ON SKIN（or hair）：Take off immediately all contaminated clothing．Rinse skin with water．
If skin irritation occurs ：Get medical advice and attention．
【Storage】
Store in a well－ventilated place．Keep container tightly closed．
【Disposal】
Dispose of contents and container in accordance with local regulations．

## 2．3．Other hazards

No information available．

## SECTION 3：Composition／information on ingredients

Ingredients ：

| Chemical Name／ Generic name | Composition weight \％ | CAS <br> Registry No． | Hazard Class （category） | Hazard statement |
| :---: | :---: | :---: | :---: | :---: |
| Ethyl alcohol | $35 \sim 45$ | 64－17－5 | Flam．Liq． 2 | H225 |
| Propan－1－ol | $10 \sim 20$ | 71－23－8 | Flam．Liq． 2 <br> Eye Dam． 1 <br> STOT．SE． 3 | $\begin{aligned} & \text { H225 } \\ & \text { H318 } \\ & \text { H336 } \end{aligned}$ |
| Butan－1－ol | $1 \sim 10$ | 71－36－3 | Flam．Liq． 3 Acute Tox．（oral） 4 Skin Irrit． 2 Eye Dam． 1 STOT．SE． 3 | $\begin{gathered} \text { H226 } \\ \text { H302 } \\ \text { H315 } \\ \text { H318 } \\ \text { H335+H336 } \end{gathered}$ |
| Propan－2－ol | $1 \sim 5$ | 67－63－0 | Flam．Liq． 2 Eye Irrit．2A STOT．SE． 3 | $\begin{aligned} & \text { H225 } \\ & \text { H319 } \\ & \text { H336 } \end{aligned}$ |
| Titanium dioxide | $1 \sim 5$ | 13463－67－7 | none | none |
| Pigment | $10 \sim 20$ | Confidential | none | none |
| Synthetic resin | $1 \sim 10$ | Confidential | none | none |
| Others | $10 \sim 20$ | 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．

### 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 (2019) |  |  |
| Ethyl alcohol | TWA | 1,000 ppm |
| Propan-1-ol | TWA | 200 ppm |
| Propan-2-ol | TWA | 400 ppm |
| Butan-1-ol | TWA | 50 ppm |
| Titanium dioxide | TWA | $10 \mathrm{mg} / \mathrm{m}^{3}$ |
| EH40/2005 Workplace exposure limits (Fourth Edition, published 2020) |  |  |
| Ethyl alcohol | TWA | 1,000 ppm |
| Propan-1-ol | TWA | 200 ppm |
| Propan-2-ol | TWA | 400 ppm |
| Butan-1-ol | STEL | 50 ppm |
| Titanium dioxide | TWA | $10 \mathrm{mg} / \mathrm{m}^{3}$ |
| ACGIH (2019) |  |  |
| Ethyl alcohol | STEL | 1,000 ppm |
| Propan-1-ol | TWA | 100 ppm |
| Propan-2-ol | TWA | 200 ppm |
| Butan-1-ol | TWA | 20 ppm |
| Titanium dioxide | TWA | $10 \mathrm{mg} / \mathrm{m}^{3}$ |

### 8.2. Exposure controls

Personal protective equipment
Respiratory Protection : Use with local exhaust ventilation, when in long use
Avoid breathing vapours. Wear mask to prevent organic gas, if necessary.
Hand Protection : Avoid contact with hands. Wear safety gloves, if necessary.
Eye Protection : Avoid contact with eyes. Wear safety glasses, if necessary.
Skin Protection : Avoid skin contact. Wear personal protection apron, boots, if necessary.
Environmental exposure controls
General advice : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

## SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| Appearance | $:$ Fluoro. green liquid |
| :--- | :--- |
| Odour | $:$ Minor solvent odour |
| pH | $:$ Not applicable |
| Boiling point | $: 78 \sim 118^{\circ} \mathrm{C}$ |
| Flash point | $: 17^{\circ} \mathrm{C}$ (closed cup) |
| Relative Density (at $\left.\mathbf{2 5}^{\circ} \mathrm{C}\right)$ | $: 0.8 \sim 1.0\left(\mathrm{~g} / \mathrm{cm}^{3}\right)$ |
| 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 \(\mathrm{CO}, \mathrm{CO}_{2}\)
```


## SECTION 11: Toxicological information



Specific target organ toxicity : Category 3 May cause drowsiness or dizziness (single exposure)
Carcinogenicity : Titanium dioxide has been classified by the IARC as Group 2B. Other materials ; Not contain any component that is considered a human carcinogen by IARC, ACGIH, EPA, EU or NTP.

Regarding the carcinogenicity of titanium dioxide, International Agency for Research on Cancer (IARC) has classified as a group 2B. However, ACGIH (American Conference of Governmental Industrial Hygienists), EPA (Environmental Protection Agency), EU (European Chemicals Agency), NTP (National Toxicology Program, USA) in the classification of suspected carcinogenic to humans has not been done. Therefore, as the ink product we could not classify the carcinogenicity of GHS from that there is no sufficient data

## SECTION 12: Ecological information

12.1. Toxicity
12.2. Persistence and degradability
12.3. Bioaccumulative potential
12.4. Mobility in soil
12.5. Results of PBT and vPvB assessment
12.6. Other adverse effects
: No data available
: No data available
: No data available
: No data available
: No data available
: 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
14.2. UN proper shipping name
14.3. Transport hazard class(es)

ADG, IMDG, IATA : UN1210
ADG, IMDG, IATA : PRINTING INK, flammable
ADG, IMDG, IATA

- Class 3 (Flammable liquids)

ADG, IMDG, IATA : II
Marine pollutant : No
EMS Number : F-E,S-D
14.6. Special precautions for user
14.7. HAZCHEM Code


### 14.5. Environmental hazards

14.7. HAZCHEM Code

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
[(AU) SWA][Shachihata Inc.] [EPD-4_F-green_e_dy] 6/6

|  | Labelling of Workplace Hazardous Chemicals |
| :--- | :--- |
| GHS | Globally Harmonised System of Classification and Labelling of Chemicals |
| Safe Work Australia HSIS | http://hsis.safeworkaustralia.gov.au/HazardousSubstance |
| WES | Workplace Exposure Standards for Airborne Contaminants (2019) |
| ADG Code | Australian Code for the Transport of Dangerous Goods by Road \& Rail Edition 7.6, 2018 |

RoHS
ELV
compliant

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.

## Safety Data Sheet

according to Safe Work Australia document

＂Model Code of Practice ：Preparation of safety data sheets for hazardous chemicals＂
Issued Date： 19 July 2013
Revised Date ： 13 December， 2023

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

## 1．1．Product identifier

Product Name ：Artline Opaque Ink Board Marker
Colour ：（Fluoro．orange）
EPD－4
Artine dry－wipe erasable
Opaque lik Board Markcr
1．2．Relevant identified uses of the substance or mixture and uses advised against
Recommended use
：Marker ink

## 1．3．Details of the supplier of the safety data sheet

| Supplier | Company Name |
| :--- | :--- |
| Address | ACCO Brands Australia Pty Ltd |
| Phone | ： 2 Coronation Avenue，Kings Park， 2148 NSW，Australia |
| Contact（e－mail） | $: 0296740900$（9am to 5pm AEST，Monday to Friday） |
| Website | sds．anz＠acco．com |
| 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 | https：／／www．artlineworld．com／contact／ |



1．4．Emergency telephone number
Poisons Information Centre ： 131126
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
Serious eye damage，Category 1
Specific target organ toxicity ；single exposure，Category 3
H225 ：Highly flammable liquid and vapour
H318 ：Causes serious eye damage
H336 ：May cause drowsiness or dizziness
（narcotic effects）

## 2．2．Label elements

Labelling（SWA）
Symbols



| Signal word | ：Danger |  |
| :--- | :--- | :--- |
| Hazard statement | ：Highly flammable liquid and vapour |  |
|  | Causes serious eye damage | （H225） |
|  | May cause drowsiness or dizziness | （H318） |
|  | （H336） |  |

Precautionary statement
【Prevention】
Keep out of reach of children．
Keep away from heat，hot surfaces，sparks，open flames and other ignition sources．No smoking．

```
Avoid breathing vapours．
Use only outdoors or in a well－ventilated area．
Wear eye protection．
【Response】
In case of fire ：Use dry chemical powder，foam or carbon dioxide to extinguish
IF INHALED ：Remove person to fresh air and keep comfortable for breathing．
IF IN EYES ：Rinse cautiously with water for several minutes．
Remove contact lenses，if present and easy to do．Continue rinsing．
If eye irritation persists ：Get medical advice and attention．
Immediately call a POISON CENTER or physician．
IF ON SKIN（or hair）：Take off immediately all contaminated clothing．Rinse skin with water．
If skin irritation occurs ：Get medical advice and attention．
【Storage】
Store in a well－ventilated place．Keep container tightly closed．
【Disposal】
Dispose of contents and container in accordance with local regulations．

\section*{2．3．Other hazards}

No information available．

\section*{SECTION 3：Composition／information on ingredients}

Ingredients ：
\begin{tabular}{|c|c|c|c|c|}
\hline Chemical Name／ Generic name & Composition weight \％ & \begin{tabular}{l}
CAS \\
Registry No．
\end{tabular} & Hazard Class （category） & Hazard statement \\
\hline Ethyl alcohol & \(35 \sim 45\) & 64－17－5 & Flam．Liq． 2 & H225 \\
\hline Propan－1－ol & \(10 \sim 20\) & 71－23－8 & \begin{tabular}{l}
Flam．Liq． 2 \\
Eye Dam． 1 \\
STOT．SE． 3
\end{tabular} & \[
\begin{aligned}
& \text { H225 } \\
& \text { H318 } \\
& \text { H336 }
\end{aligned}
\] \\
\hline Butan－1－ol & \(1 \sim 10\) & 71－36－3 & Flam．Liq． 3 Acute Tox．（oral） 4 Skin Irrit． 2 Eye Dam． 1 STOT．SE． 3 & \[
\begin{gathered}
\text { H226 } \\
\text { H302 } \\
\text { H315 } \\
\text { H318 } \\
\text { H335+H336 }
\end{gathered}
\] \\
\hline Propan－2－ol & \(1 \sim 5\) & 67－63－0 & Flam．Liq． 2 Eye Irrit．2A STOT．SE． 3 & \[
\begin{aligned}
& \text { H225 } \\
& \text { H319 } \\
& \text { H336 }
\end{aligned}
\] \\
\hline Titanium dioxide & \(1 \sim 5\) & 13463－67－7 & none & none \\
\hline Pigment & \(10 \sim 20\) & Confidential & none & none \\
\hline Synthetic resin & \(1 \sim 10\) & Confidential & none & none \\
\hline Others & \(10 \sim 20\) & Confidential & none & none \\
\hline total & 100 & & & \\
\hline
\end{tabular}

\section*{SECTION 4：First－aid measures}

\section*{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．

\subsection*{5.1. Extinguishing media}

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

\subsection*{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.

\subsection*{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*{SECTION 6: Accidental release measures}

\subsection*{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.

\subsection*{6.2. Environmental precautions}

Do not throw the leakage thing directly into environment

\subsection*{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*{SECTION 7: Handling and storage}

\subsection*{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*{SECTION 8: Exposure controls and personal protection}
\begin{tabular}{|c|c|c|}
\hline \multicolumn{3}{|l|}{8.1. Control parameters} \\
\hline \multicolumn{3}{|l|}{Australian exposure standards (2019)} \\
\hline Ethyl alcohol & TWA & 1,000 ppm \\
\hline Propan-1-ol & TWA & 200 ppm \\
\hline Propan-2-ol & TWA & 400 ppm \\
\hline Butan-1-ol & TWA & 50 ppm \\
\hline Titanium dioxide & TWA & \(10 \mathrm{mg} / \mathrm{m}^{3}\) \\
\hline \multicolumn{3}{|l|}{EH40/2005 Workplace exposure limits (Fourth Edition, published 2020)} \\
\hline Ethyl alcohol & TWA & 1,000 ppm \\
\hline Propan-1-ol & TWA & 200 ppm \\
\hline Propan-2-ol & TWA & 400 ppm \\
\hline Butan-1-ol & STEL & 50 ppm \\
\hline Titanium dioxide & TWA & \(10 \mathrm{mg} / \mathrm{m}^{3}\) \\
\hline \multicolumn{3}{|l|}{ACGIH (2019)} \\
\hline Ethyl alcohol & STEL & 1,000 ppm \\
\hline Propan-1-ol & TWA & 100 ppm \\
\hline Propan-2-ol & TWA & 200 ppm \\
\hline Butan-1-ol & TWA & 20 ppm \\
\hline Titanium dioxide & TWA & \(10 \mathrm{mg} / \mathrm{m}^{3}\) \\
\hline
\end{tabular}

\subsection*{8.2. Exposure controls}

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*{SECTION 9: Physical and chemical properties}
9.1 Information on basic physical and chemical properties
\begin{tabular}{ll} 
Appearance & \(:\) Fluoro. orange liquid \\
Odour & \(:\) Minor solvent odour \\
pH & \(:\) Not applicable \\
Boiling point & \(: 78 \sim 118^{\circ} \mathrm{C}\) \\
Flash point & \(: 17^{\circ} \mathrm{C}(\) closed cup) \\
Relative Density (at \(\left.\mathbf{2 5}^{\circ} \mathrm{C}\right)\) & \(: 0.8 \sim 1.0\left(\mathrm{~g} / \mathrm{cm}^{3}\right)\) \\
Solubility in Water & \(:\) Insoluble
\end{tabular}

\section*{SECTION 10: Stability and reactivity}
```

10.1. Reactivity
No dangerous reaction known under conditions of normal use.

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\subsection*{10.2. Chemical stability}
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Thermally stable at typical use temperatures.

```

\subsection*{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 $\mathrm{CO}, \mathrm{CO}_{2}$

```

\section*{SECTION 11: Toxicological information}
\begin{tabular}{|c|c|c|c|}
\hline Acute toxicity & \multicolumn{3}{|l|}{LD/LC50 values that are relevant for classification [Ethyl alcohol]} \\
\hline & Oral-rat & LD50 & \(>5,000 \mathrm{mg} / \mathrm{kg}\) \\
\hline & Inhalation-rat [Propan-1-ol] & LC50 & >20 mg/L/4h \\
\hline & Oral-rat & LD50 & >2,000 mg/kg \\
\hline & Dermal-rabbit & LD50 & >2,000 mg/kg \\
\hline & Inhalation-rat [Propan-2-ol] & LC50 & >20 mg/L/4h \\
\hline & Oral-rat & LD50 & >5,000 mg/kg \\
\hline & Dermal-rabbit & LD50 & \(>5,000 \mathrm{mg} / \mathrm{kg}\) \\
\hline & Inhalation-rat & LC50 & >20 mg/L/4h \\
\hline & [Butan-1-ol] & & \\
\hline & Oral-rat & LD50 & >300-<=2,000 mg/kg \\
\hline & Dermal-rabbit & LD50 & \(>2,000 \mathrm{mg} / \mathrm{kg}\) \\
\hline & Inhalation-rat & LC50 & >20 mg/L/4h \\
\hline
\end{tabular}

Specific target organ toxicity : Category 3 May cause drowsiness or dizziness (single exposure)
Carcinogenicity : Titanium dioxide has been classified by the IARC as Group 2B. Other materials ; Not contain any component that is considered a human carcinogen by IARC, ACGIH, EPA, EU or NTP.

Regarding the carcinogenicity of titanium dioxide, International Agency for Research on Cancer (IARC) has classified as a group 2B. However, ACGIH (American Conference of Governmental Industrial Hygienists), EPA (Environmental Protection Agency), EU (European Chemicals Agency), NTP (National Toxicology Program, USA) in the classification of suspected carcinogenic to humans has not been done. Therefore, as the ink product we could not classify the carcinogenicity of GHS from that there is no sufficient data.

\section*{SECTION 12: Ecological information}
12.1. Toxicity
12.2. Persistence and degradability
12.3. Bioaccumulative potential
12.4. Mobility in soil
12.5. Results of PBT and vPvB assessment
12.6. Other adverse effects
: No data available
: No data available
: No data available
: No data available
: No data available
: No data available

\section*{SECTION 13: Disposal considerations}

\subsection*{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*{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
14.2. UN proper shipping name
14.3. Transport hazard class(es)

ADG, IMDG, IATA : UN1210
ADG, IMDG, IATA : PRINTING INK, flammable
ADG, IMDG, IATA
- Class 3 (Flammable liquids)

ADG, IMDG, IATA : II
Marine pollutant : No
EMS Number : F-E,S-D
14.6. Special precautions for user
14.7. HAZCHEM Code
: 3YE (ADG7)

\section*{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.

\subsection*{15.2. Chemical safety assessment}

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

\section*{SECTION 16: Other information}

\section*{References}

Model Code of Practice
[(AU) SWA][Shachihata Inc.] [EPD-4_F-orange_e_dy] 6/6
\begin{tabular}{|l|l|} 
& Labelling of Workplace Hazardous Chemicals \\
\hline GHS & Globally Harmonised System of Classification and Labelling of Chemicals \\
\hline Safe Work Australia HSIS & http://hsis.safeworkaustralia.gov.au/HazardousSubstance \\
\hline WES & Workplace Exposure Standards for Airborne Contaminants (2019) \\
\hline ADG Code & Australian Code for the Transport of Dangerous Goods by Road \& Rail Edition 7.6, 2018 \\
\hline
\end{tabular}

RoHS
ELV
compliant

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.

\title{
Safety Data Sheet
}

\section*{SECTION 1：Identification ；Chemical product and company identification}

\section*{1．1．Product identifier}

Product Name
：Artline Opaque Ink Board Marker EPD－4

Colour ：（Fluoro．pink）

1．2．Relevant identified uses of the substance or mixture and uses advised against
Recommended use
：Marker ink

\section*{1．3．Details of the supplier of the safety data sheet}


Poisons Information Centre ： 131126

\section*{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．

\section*{2．1．Classification of the substance or mixture}

\section*{2．1．1．Classification（SWA）}

Flammable liquids，Category 2
Serious eye damage，Category 1
Specific target organ toxicity ；single exposure，Category 3
H225 ：Highly flammable liquid and vapour
H318 ：Causes serious eye damage
H336 ：May cause drowsiness or dizziness
（narcotic effects）

\section*{2．2．Label elements}

Labelling（SWA）
Symbols


\begin{tabular}{lll} 
Signal word & ：Danger & \\
Hazard statement & ：Highly flammable liquid and vapour & \\
& Causes serious eye damage & （H225） \\
& May cause drowsiness or dizziness & （H318） \\
& （H336）
\end{tabular}

Precautionary statement
【Prevention】
Keep out of reach of children．
Keep away from heat，hot surfaces，sparks，open flames and other ignition sources．No smoking．
```

Avoid breathing vapours．
Use only outdoors or in a well－ventilated area．
Wear eye protection．
【Response】
In case of fire ：Use dry chemical powder，foam or carbon dioxide to extinguish
IF INHALED ：Remove person to fresh air and keep comfortable for breathing．
IF IN EYES ：Rinse cautiously with water for several minutes．
Remove contact lenses，if present and easy to do．Continue rinsing．
If eye irritation persists ：Get medical advice and attention．
Immediately call a POISON CENTER or physician．
IF ON SKIN（or hair）：Take off immediately all contaminated clothing．Rinse skin with water．
If skin irritation occurs ：Get medical advice and attention．
【Storage】
Store in a well－ventilated place．Keep container tightly closed．
【Disposal】
Dispose of contents and container in accordance with local regulations．

## 2．3．Other hazards

No information available．

## SECTION 3：Composition／information on ingredients

Ingredients ：

| Chemical Name／ Generic name | Composition weight \％ | CAS <br> Registry No． | Hazard Class （category） | Hazard statement |
| :---: | :---: | :---: | :---: | :---: |
| Ethyl alcohol | $35 \sim 45$ | 64－17－5 | Flam．Liq． 2 | H225 |
| Propan－1－ol | $10 \sim 20$ | 71－23－8 | Flam．Liq． 2 <br> Eye Dam． 1 <br> STOT．SE． 3 | $\begin{aligned} & \text { H225 } \\ & \text { H318 } \\ & \text { H336 } \end{aligned}$ |
| Butan－1－ol | $1 \sim 10$ | 71－36－3 | Flam．Liq． 3 Acute Tox．（oral） 4 Skin Irrit． 2 Eye Dam． 1 STOT．SE． 3 | $\begin{gathered} \text { H226 } \\ \text { H302 } \\ \text { H315 } \\ \text { H318 } \\ \text { H335+H336 } \end{gathered}$ |
| Propan－2－ol | $1 \sim 5$ | 67－63－0 | Flam．Liq． 2 <br> Eye Irrit．2A <br> STOT．SE． 3 | $\begin{aligned} & \mathrm{H} 225 \\ & \mathrm{H} 319 \\ & \mathrm{H} 336 \end{aligned}$ |
| Titanium dioxide | $1 \sim 5$ | 13463－67－7 | none | none |
| Pigment | $10 \sim 20$ | Confidential | none | none |
| Synthetic resin | $1 \sim 10$ | Confidential | none | none |
| Others | $10 \sim 20$ | 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．

### 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 (2019) |  |  |
| Ethyl alcohol | TWA | 1,000 ppm |
| Propan-1-ol | TWA | 200 ppm |
| Propan-2-ol | TWA | 400 ppm |
| Butan-1-ol | TWA | 50 ppm |
| Titanium dioxide | TWA | $10 \mathrm{mg} / \mathrm{m}^{3}$ |
| EH40/2005 Workplace exposure limits (Fourth Edition, published 2020) |  |  |
| Ethyl alcohol | TWA | 1,000 ppm |
| Propan-1-ol | TWA | 200 ppm |
| Propan-2-ol | TWA | 400 ppm |
| Butan-1-ol | STEL | 50 ppm |
| Titanium dioxide | TWA | $10 \mathrm{mg} / \mathrm{m}^{3}$ |
| ACGIH (2019) |  |  |
| Ethyl alcohol | STEL | 1,000 ppm |
| Propan-1-ol | TWA | 100 ppm |
| Propan-2-ol | TWA | 200 ppm |
| Butan-1-ol | TWA | 20 ppm |
| Titanium dioxide | TWA | $10 \mathrm{mg} / \mathrm{m}^{3}$ |

### 8.2. Exposure controls

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 | $:$ Fluoro. pink liquid |
| :--- | :--- |
| Odour | $:$ Minor solvent odour |
| pH | $:$ Not applicable |
| Boiling point | $: 78 \sim 118^{\circ} \mathrm{C}$ |
| Flash point | $: 17^{\circ} \mathrm{C}($ closed cup) |
| Relative Density (at $\left.\mathbf{2 5}^{\circ} \mathrm{C}\right)$ | $: 0.8 \sim 1.0\left(\mathrm{~g} / \mathrm{cm}^{3}\right)$ |
| 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 \(\mathrm{CO}, \mathrm{CO}_{2}\)
```


## SECTION 11: Toxicological information



Specific target organ toxicity : Category 3 May cause drowsiness or dizziness (single exposure)
Carcinogenicity : Titanium dioxide has been classified by the IARC as Group 2B. Other materials ; Not contain any component that is considered a human carcinogen by IARC, ACGIH, EPA, EU or NTP.

Regarding the carcinogenicity of titanium dioxide, International Agency for Research on Cancer (IARC) has classified as a group 2B. However, ACGIH (American Conference of Governmental Industrial Hygienists), EPA (Environmental Protection Agency), EU (European Chemicals Agency), NTP (National Toxicology Program, USA) in the classification of suspected carcinogenic to humans has not been done. Therefore, as the ink product we could not classify the carcinogenicity of GHS from that there is no sufficient data

## SECTION 12: Ecological information

12.1. Toxicity
12.2. Persistence and degradability
12.3. Bioaccumulative potential
12.4. Mobility in soil
12.5. Results of PBT and vPvB assessment
12.6. Other adverse effects
: No data available
: No data available
: No data available
: No data available
: No data available
: 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
14.2. UN proper shipping name
14.3. Transport hazard class(es)

ADG, IMDG, IATA : UN1210
ADG, IMDG, IATA : PRINTING INK, flammable
ADG, IMDG, IATA

- Class 3 (Flammable liquids)

ADG, IMDG, IATA : II
Marine pollutant : No
EMS Number : F-E,S-D
14.6. Special precautions for user
14.7. HAZCHEM Code


### 14.5. Environmental hazards

14.7. HAZCHEM Code

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
[(AU) SWA][Shachihata Inc.] [EPD-4_F-pink_e] 6/6

|  | Labelling of Workplace Hazardous Chemicals |
| :--- | :--- |
| GHS | Globally Harmonised System of Classification and Labelling of Chemicals |
| Safe Work Australia HSIS | http://hsis.safeworkaustralia.gov.au/HazardousSubstance |
| WES | Workplace Exposure Standards for Airborne Contaminants (2019) |
| ADG Code | Australian Code for the Transport of Dangerous Goods by Road \& Rail Edition 7.6, 2018 |

RoHS
ELV
compliant

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.

# Safety Data Sheet 

according to Safe Work Australia document

"Model Code of Practice : Preparation of safety data sheets for hazardous chemicals"
Issued Date: 19 July 2013
Revised Date : 13 December, 2023

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

### 1.1. Product identifier

Product Name : Artline Opaque Ink Board Marker Colour : (Fluoro.yellow) EPD-4

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

Recommended use
: 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 | 0296740900 (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 | Scheoule |
|  | Phone | +81-52-521-3600 |  |
|  | Fax | +81-52-521-3899 |  |
|  | Contact | https://www.artlineworld.com/contact/ |  |

Poisons Information Centre : 131126

## 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
Serious eye damage, Category 1
Specific target organ toxicity ; single exposure, Category 3
(narcotic effects)

H225 : Highly flammable liquid and vapour
H318 : Causes serious eye damage
H336 : May cause drowsiness or dizziness

### 2.2. Label elements

Labelling (SWA)
Symbols



| Signal word | : Danger |  |
| :--- | :--- | :--- |
| Hazard statement | : Highly flammable liquid and vapour |  |
|  | Causes serious eye damage | (H225) |
|  | May cause drowsiness or dizziness | (H318) |
|  | (H336) |  |

Precautionary statement
【Prevention】
Keep out of reach of children.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

```
Avoid breathing vapours．
Use only outdoors or in a well－ventilated area．
Wear eye protection．
【Response】
In case of fire ：Use dry chemical powder，foam or carbon dioxide to extinguish
IF INHALED ：Remove person to fresh air and keep comfortable for breathing．
IF IN EYES ：Rinse cautiously with water for several minutes．
Remove contact lenses，if present and easy to do．Continue rinsing．
If eye irritation persists ：Get medical advice and attention．
Immediately call a POISON CENTER or physician．
IF ON SKIN（or hair）：Take off immediately all contaminated clothing．Rinse skin with water．
If skin irritation occurs ：Get medical advice and attention．
［Storage】
Store in a well－ventilated place．Keep container tightly closed．
（P403＋P233）
【Disposal】
Dispose of contents and container in accordance with local regulations．

\section*{2．3．Other hazards}

No information available．

\section*{SECTION 3：Composition／information on ingredients}

Ingredients ：
\begin{tabular}{|c|c|c|c|c|}
\hline Chemical Name／ Generic name & Composition weight \％ & \begin{tabular}{l}
CAS \\
Registry No．
\end{tabular} & Hazard Class （category） & Hazard statement \\
\hline Ethyl alcohol & \(30 \sim 40\) & 64－17－5 & Flam．Liq． 2 & H225 \\
\hline Propan－1－ol & \(10 \sim 20\) & 71－23－8 & \begin{tabular}{l}
Flam．Liq． 2 \\
Eye Dam． 1 \\
STOT．SE． 3
\end{tabular} & \[
\begin{aligned}
& \text { H225 } \\
& \text { H318 } \\
& \text { H336 }
\end{aligned}
\] \\
\hline Butan－1－ol & \(1 \sim 10\) & 71－36－3 & Flam．Liq． 3 Acute Tox．（oral） 4 Skin Irrit． 2 Eye Dam． 1 STOT．SE． 3 & \[
\begin{gathered}
\text { H226 } \\
\text { H302 } \\
\text { H315 } \\
\text { H318 } \\
\text { H335+H336 }
\end{gathered}
\] \\
\hline Propan－2－ol & \(1 \sim 5\) & 67－63－0 & Flam．Liq． 2 Eye Irrit．2A STOT．SE． 3 & \[
\begin{aligned}
& \text { H225 } \\
& \text { H319 } \\
& \text { H336 }
\end{aligned}
\] \\
\hline Titanium dioxide & \(1 \sim 5\) & 13463－67－7 & none & none \\
\hline Pigment & \(10 \sim 20\) & Confidential & none & none \\
\hline Synthetic resin & \(1 \sim 10\) & Confidential & none & none \\
\hline Others & \(15 \sim 25\) & Confidential & none & none \\
\hline total & 100 & & & \\
\hline
\end{tabular}

\section*{SECTION 4：First－aid measures}

\section*{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．

\subsection*{5.1. Extinguishing media}

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

\subsection*{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.

\subsection*{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*{SECTION 6: Accidental release measures}

\subsection*{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.

\subsection*{6.2. Environmental precautions}

Do not throw the leakage thing directly into environment

\subsection*{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*{SECTION 7: Handling and storage}

\subsection*{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*{SECTION 8: Exposure controls and personal protection}
\begin{tabular}{|c|c|c|}
\hline \multicolumn{3}{|l|}{8.1. Control parameters} \\
\hline \multicolumn{3}{|l|}{Australian exposure standards (2019)} \\
\hline Ethyl alcohol & TWA & 1,000 ppm \\
\hline Propan-1-ol & TWA & 200 ppm \\
\hline Propan-2-ol & TWA & 400 ppm \\
\hline Butan-1-ol & TWA & 50 ppm \\
\hline Titanium dioxide & TWA & \(10 \mathrm{mg} / \mathrm{m}^{3}\) \\
\hline \multicolumn{3}{|l|}{EH40/2005 Workplace exposure limits (Fourth Edition, published 2020)} \\
\hline Ethyl alcohol & TWA & 1,000 ppm \\
\hline Propan-1-ol & TWA & 200 ppm \\
\hline Propan-2-ol & TWA & 400 ppm \\
\hline Butan-1-ol & STEL & 50 ppm \\
\hline Titanium dioxide & TWA & \(10 \mathrm{mg} / \mathrm{m}^{3}\) \\
\hline \multicolumn{3}{|l|}{ACGIH (2019)} \\
\hline Ethyl alcohol & STEL & 1,000 ppm \\
\hline Propan-1-ol & TWA & 100 ppm \\
\hline Propan-2-ol & TWA & 200 ppm \\
\hline Butan-1-ol & TWA & 20 ppm \\
\hline Titanium dioxide & TWA & \(10 \mathrm{mg} / \mathrm{m}^{3}\) \\
\hline
\end{tabular}

\subsection*{8.2. Exposure controls}

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*{SECTION 9: Physical and chemical properties}
9.1 Information on basic physical and chemical properties
\begin{tabular}{ll} 
Appearance & \(:\) Fluoro. yellow liquid \\
Odour & \(:\) Minor solvent odour \\
pH & \(:\) Not applicable \\
Boiling point & \(: 78 \sim 118^{\circ} \mathrm{C}\) \\
Flash point & \(: 17^{\circ} \mathrm{C}(\) closed cup) \\
Relative Density (at \(\left.\mathbf{2 5}^{\circ} \mathrm{C}\right)\) & \(: 0.8 \sim 1.0\left(\mathrm{~g} / \mathrm{cm}^{3}\right)\) \\
Solubility in Water & \(:\) Insoluble
\end{tabular}

\section*{SECTION 10: Stability and reactivity}
```

10.1. Reactivity
No dangerous reaction known under conditions of normal use.

```

\subsection*{10.2. Chemical stability}
```

Thermally stable at typical use temperatures.

```

\subsection*{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 $\mathrm{CO}, \mathrm{CO}_{2}$

```

\section*{SECTION 11: Toxicological information}


Specific target organ toxicity : Category 3 May cause drowsiness or dizziness (single exposure)
Carcinogenicity : Titanium dioxide has been classified by the IARC as Group 2B. Other materials ; Not contain any component that is considered a human carcinogen by IARC, ACGIH, EPA, EU or NTP.

Regarding the carcinogenicity of titanium dioxide, International Agency for Research on Cancer (IARC) has classified as a group 2B. However, ACGIH (American Conference of Governmental Industrial Hygienists), EPA (Environmental Protection Agency), EU (European Chemicals Agency), NTP (National Toxicology Program, USA) in the classification of suspected carcinogenic to humans has not been done. Therefore, as the ink product we could not classify the carcinogenicity of GHS from that there is no sufficient data

\section*{SECTION 12: Ecological information}
12.1. Toxicity
12.2. Persistence and degradability
12.3. Bioaccumulative potential
12.4. Mobility in soil
12.5. Results of PBT and vPvB assessment
12.6. Other adverse effects
: No data available
: No data available
: No data available
: No data available
: No data available
: No data available

\section*{SECTION 13: Disposal considerations}

\subsection*{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*{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
14.2. UN proper shipping name
14.3. Transport hazard class(es)

ADG, IMDG, IATA : UN1210
ADG, IMDG, IATA : PRINTING INK, flammable
ADG, IMDG, IATA
- Class 3 (Flammable liquids)

ADG, IMDG, IATA : II
Marine pollutant : No
EMS Number : F-E,S-D
14.6. Special precautions for user
14.7. HAZCHEM Code


\subsection*{14.5. Environmental hazards}
14.7. HAZCHEM Code

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.

\subsection*{15.2. Chemical safety assessment}

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

\section*{SECTION 16: Other information}

\section*{References}

Model Code of Practice
[(AU) SWA][Shachihata Inc.] [EPD-4_F-yellow_e] 6/6
\begin{tabular}{|l|l|} 
& Labelling of Workplace Hazardous Chemicals \\
\hline GHS & Globally Harmonised System of Classification and Labelling of Chemicals \\
\hline Safe Work Australia HSIS & http://hsis.safeworkaustralia.gov.au/HazardousSubstance \\
\hline WES & Workplace Exposure Standards for Airborne Contaminants (2019) \\
\hline ADG Code & Australian Code for the Transport of Dangerous Goods by Road \& Rail Edition 7.6, 2018 \\
\hline
\end{tabular}

RoHS
ELV
compliant

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.

\section*{Safety Data Sheet}

\author{
according to Safe Work Australia document
}
＂Model Code of Practice ：Preparation of safety data sheets for hazardous chemicals＂
Issued Date： 19 July 2013
Revised Date ： 13 December， 2023

\section*{SECTION 1：Identification ；Chemical product and company identification}

\section*{1．1．Product identifier}

Product Name ：Artline Opaque Ink Board Marker Colour ：（White） EPD－4 Arrine drywipe erasable
Opaque Ink Board Marke：

1．2．Relevant identified uses of the substance or mixture and uses advised against
Recommended use
：Marker ink

\section*{1．3．Details of the supplier of the safety data sheet}
\begin{tabular}{lll} 
Supplier & Company Name & \(:\) ACCO Brands Australia Pty Ltd \\
Address & \(: 2\) Coronation Avenue，Kings Park， 2148 NSW，Australia \\
Phone & \(: 0296740900\)（9am to 5pm AEST，Monday to Friday） \\
Contact（e－mail） & \(: \underline{\text { sds．anz＠acco．com }}\) \\
Website & \(: \underline{\text { www．accobrands．com．au }}\) \\
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 & \(: \underline{\text { https：／／www．artlineworld．com／contact／}}\)
\end{tabular}


1．4．Emergency telephone number
Poisons Information Centre ： 131126

\section*{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．

\section*{2．1．Classification of the substance or mixture}

\section*{2．1．1．Classification（SWA）}

Flammable liquids，Category \(2 \quad \mathrm{H} 225\) ：Highly flammable liquid and vapour
Serious eye damage，Category \(1 \quad \mathrm{H} 318\) ：Causes serious eye damage

\section*{2．2．Label elements \\ Labelling（SWA） \\ Symbols}

Signal word
Hazard statement


Danger
Highly flammable liquid and vapour Causes serious eye damage

Precautionary statement
【Prevention】
Keep out of reach of children．
Keep away from heat，hot surfaces，sparks，open flames and other ignition sources．No smoking．（P210）
Take precautionary measures against static discharge．
Wear eye protection．
【Response】
In case of fire ：Use dry chemical powder，foam or carbon dioxide to extinguish．

IF IN EYES ：Rinse cautiously with water for several minutes
Remove contact lenses，if present and easy to do．Continue rinsing．
If eye irritation persists ：Get medical advice and attention．（P337＋ \(\mathrm{P}^{2313)}\)
Immediately call a POISON CENTER or physician．（P310）
IF ON SKIN（or hair）：Take off immediately all contaminated clothing．Rinse skin with water．（P303＋P361＋P33）
If skin irritation occurs ：Get medical advice and attention．（P332＋P313）
【Storage】
Store in a well－ventilated place．Keep container tightly closed．
【Disposal】
Dispose of contents and container in accordance with local regulations．

\section*{2．3．Other hazards}

No information available．

\section*{SECTION 3：Composition／information on ingredients}

Ingredients ：
\begin{tabular}{|l|c|c|c|c|}
\hline \multicolumn{1}{|c|}{\begin{tabular}{c} 
Chemical Name／ \\
Generic name
\end{tabular}} & \begin{tabular}{c} 
Composition \\
weight \％
\end{tabular} & \begin{tabular}{c} 
CAS \\
Registry No．
\end{tabular} & \begin{tabular}{c} 
Hazard Class \\
（category）
\end{tabular} & Hazard statement \\
\hline Ethyl alcohol & \(45 \sim 55\) & \(64-17-5\) & Flam．Liq．2 & H225 \\
\hline Propan－1－ol & \(10 \sim 20\) & \(71-23-8\) & \begin{tabular}{c} 
Flam．Liq．2 \\
Eye Dam．1 \\
STOT．SE．3
\end{tabular} & \begin{tabular}{c} 
H225 \\
H318 \\
H336
\end{tabular} \\
\hline Butan－1－ol & \(1 \sim 10\) & \(71-36-3\) & \begin{tabular}{c} 
Flam．Liq．3 \\
Acute Tox．（oral）4 \\
Skin Irrit．2 \\
Eye Dam．1
\end{tabular} & \begin{tabular}{c} 
H226 \\
H302 \\
H315 \\
H318
\end{tabular} \\
\hline Titanium dioxide & & & H335＋H336 \\
\hline Synthetic resin & \(5 \sim 15\) & \(13463-67-7\) & none & none \\
\hline Others & \(5 \sim 15\) & Confidential & none & none \\
\hline \multicolumn{1}{r|}{ total } & \(5 \sim 15\) & Confidential & none & none \\
\hline
\end{tabular}

\section*{SECTION 4：First－aid measures}

\section*{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*{SECTION 5：Firefighting－measures}

\section*{5．1．Extinguishing media}

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

\section*{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．

\section*{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*{SECTION 6: Accidental release measures}

\subsection*{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.

\subsection*{6.2. Environmental precautions}

Do not throw the leakage thing directly into environment

\subsection*{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*{SECTION 7: Handling and storage}

\subsection*{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.

\subsection*{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*{SECTION 8: Exposure controls and personal protection}
\begin{tabular}{|c|c|c|}
\hline \multicolumn{3}{|l|}{8.1. Control parameters} \\
\hline \multicolumn{3}{|l|}{Australian exposure standards (2019)} \\
\hline Ethyl alcohol & TWA & 1,000 ppm \\
\hline Propan-1-ol & TWA & 200 ppm \\
\hline Butan-1-ol & TWA & 50 ppm \\
\hline Titanium dioxide & TWA & \(10 \mathrm{mg} / \mathrm{m}^{3}\) \\
\hline \multicolumn{3}{|l|}{EH40/2005 Workplace exposure limits (Fourth Edition, published 2020)} \\
\hline Ethyl alcohol & TWA & 1,000 ppm \\
\hline Propan-1-ol & TWA & 200 ppm \\
\hline Butan-1-ol & STEL & 50 ppm \\
\hline Titanium dioxide & TWA & \(10 \mathrm{mg} / \mathrm{m}^{3}\) \\
\hline \multicolumn{3}{|l|}{ACGIH (2019)} \\
\hline Ethyl alcohol & STEL & 1,000 ppm \\
\hline Propan-1-ol & TWA & 100 ppm \\
\hline Butan-1-ol & TWA & 20 ppm \\
\hline Titanium dioxide & TWA & \(10 \mathrm{mg} / \mathrm{m}^{3}\) \\
\hline
\end{tabular}

\subsection*{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*{SECTION 9: Physical and chemical properties}
9.1 Information on basic physical and chemical properties

Appearance
\begin{tabular}{ll} 
Odour & \(:\) Minor solvent odour \\
\(\mathbf{p H}\) & \(:\) Not applicable \\
Boiling point & \(: 78 \sim 118^{\circ} \mathrm{C}\) \\
Flash point & \(: 17^{\circ} \mathrm{C}(\) closed cup \()\) \\
Relative Density (at \(\left.\mathbf{2 5}^{\circ} \mathrm{C}\right)\) & \(: 0.8 \sim 1.0\left(\mathrm{~g} / \mathrm{cm}^{3}\right)\) \\
Solubility in Water & \(:\) Insoluble
\end{tabular}

\section*{SECTION 10: Stability and reactivity}

\subsection*{10.1. Reactivity}

No dangerous reaction known under conditions of normal use.

\subsection*{10.2. Chemical stability}

Thermally stable at typical use temperatures.

\subsection*{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 \(\mathrm{CO}, \mathrm{CO}_{2}\)

\section*{SECTION 11: Toxicological information}

\subsection*{11.1. Information on toxicological effects}

Acute toxicity : LD/LC50 values that are relevant for classification [Ethyl alcohol]
\begin{tabular}{lll}
\begin{tabular}{lll} 
Oral-rat & LD50 & \(>5,000 \mathrm{mg} / \mathrm{kg}\) \\
Inhalation-rat & LC50 & \(>20 \mathrm{mg} / \mathrm{L} / 4 \mathrm{~h}\)
\end{tabular} \\
Propan-1-ol] & & \\
\begin{tabular}{ll} 
Oral-rat & LD50
\end{tabular} & \(>2,000 \mathrm{mg} / \mathrm{kg}\) \\
Dermal-rabbit & LD50 & \(>2,000 \mathrm{mg} / \mathrm{kg}\) \\
Inhalation-rat & LC50 & \(>20 \mathrm{mg} / \mathrm{L} / 4 \mathrm{~h}\) \\
Butan-1-ol] & & \\
\begin{tabular}{ll} 
Oral-rat & LD50
\end{tabular} & \(>300-<=2,000 \mathrm{mg} / \mathrm{kg}\) \\
Dermal-rabbit & LD50 & \(>2,000 \mathrm{mg} / \mathrm{kg}\) \\
Inhalation-rat & LC50 & \(>20 \mathrm{mg} / \mathrm{L} / 4 \mathrm{~h}\)
\end{tabular}

Serious eye damage
: Category 1 Causes serious eye damage
Carcinogenicity : Titanium dioxide has been classified by the IARC as Group 2B. Other materials ; Not contain any component that is considered a human carcinogen by IARC, ACGIH, EPA, EU or NTP.
Regarding the carcinogenicity of titanium dioxide, International Agency for Research on Cancer (IARC) has classified as a group 2B. However, ACGIH (American Conference of Governmental Industrial Hygienists), EPA (Environmental Protection Agency), EU (European Chemicals Agency), NTP (National Toxicology Program, USA) in the classification of suspected carcinogenic to humans has not been done.
Therefore, as the ink product we could not classify the carcinogenicity of GHS from that there is no sufficient data.

\section*{SECTION 12: Ecological information}
12.1. Toxicity
12.2. Persistence and degradability
12.3. Bioaccumulative potential
12.4. Mobility in soil
12.5. Results of PBT and vPvB assessment
12.6. Other adverse effects
: No data available
: No data available
: No data available
: No data available
: No data available
: No data available

\section*{SECTION 13: Disposal considerations}

\subsection*{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*{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
14.2. UN proper shipping name
14.3. Transport hazard class(es)

\subsection*{14.4. Packing group}

\subsection*{14.5. Environmental hazards}
14.6. Special precautions for user

ADG, IMDG, IATA : UN1210
ADG, IMDG, IATA : PRINTING INK, flammable
ADG, IMDG, IATA
- Class 3 (Flammable liquids)
- Label 3

ADG, IMDG, IATA : II
Marine pollutant : No
EMS Number : F-E,S-D

\section*{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.

\subsection*{15.2. Chemical safety assessment}

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

\section*{SECTION 16: Other information}

References
\begin{tabular}{|l|l|}
\hline Model Code of Practice & \begin{tabular}{l} 
Preparation of Safety Data Sheets for Hazardous Chemicals \\
Labelling of Workplace Hazardous Chemicals
\end{tabular} \\
\hline GHS & Globally Harmonised System of Classification and Labelling of Chemicals \\
\hline Safe Work Australia HSIS & http://hsis.safeworkaustralia.gov.au/HazardousSubstance \\
\hline WES & Workplace Exposure Standards for Airborne Contaminants (2019) \\
\hline ADG Code & Australian Code for the Transport of Dangerous Goods by Road \& Rail Edition 7.6, 2018 \\
\hline
\end{tabular}


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

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

