

# Safety Data Sheet

according to Safe Work Australia document

"Model Code of Practice : Preparation of safety data sheets for hazardous chemicals"

Issued Date : 25 December 2013

Revised Date : 13 December, 2023

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

**1.1. Product identifier**

Product Name : Artline 400XF,409XF,440XF,444XF Paint Marker Colour : (Black)  
 EK-400N, EK-409N, EK-440N, EK-444N



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

Recommended use : Paint marker ink



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

Supplier Company Name : ACCO Brands Australia Pty Ltd  
 Address : 2 Coronation Avenue, Kings Park, 2148 NSW, Australia  
 Phone : 02 9674 0900 (9am to 5pm AEST, Monday to Friday)  
 Contact (e-mail) : [sds.anz@acco.com](mailto:sds.anz@acco.com)  
 Website : [www.accobrand.com.au](http://www.accobrand.com.au)



Manufacturer Company Name : Shachihata Inc.  
 Address : 4-69,Amazuka-cho,Nishi-ku,Nagoya City,451-0021,Japan  
 Phone : +81-52-521-3600  
 Fax : +81-52-521-3899  
 Contact : <https://www.artlineworld.com/contact/>



**1.4. Emergency telephone number**

Poisons Information Centre : 13 11 26

**SECTION 2: Hazards identification**

Hazardous Substance , Dangerous Goods.

Classified as hazardous according to the criteria of Safe Work Australia (SWA - formerly NOHSC), and as Dangerous Goods according to the Australian Dangerous Goods (ADG) Code for Transport by Road and Rail.

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

**2.1.1. Classification (SWA)**

Flammable liquids, Category 2	H225 : Highly flammable liquid and vapour
Skin irritation, Category 2	H315 : Causes skin irritation
Specific target organ toxicity ; single exposure, Category 3 (narcotic effects)	H336 : May cause drowsiness or dizziness
Aspiration toxicity, Category 1	H304 : May be fatal if swallowed and enters airways
Hazardous to the aquatic environment, chronic toxicity, Category 2	H411 : Toxic to aquatic life with long lasting effects

**2.2. Label elements**

Labelling (SWA)

Symbols : 

Signal word : Danger

Hazard statement : Highly flammable liquid and vapour  
 Causes skin irritation  
 May cause drowsiness or dizziness  
 May be fatal if swallowed and enters airways

(H225)  
 (H315)  
 (H336)  
 (H304)

## Toxic to aquatic life with long lasting effects

(H411)

## Precautionary statement

## 【Prevention】

Keep out of reach of children. (P102)

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. (P210)

Take precautionary measures against static discharge. (P243)

Avoid breathing vapours. (P261)

Wash hands thoroughly after handling. (P264)

Use only outdoors or in a well-ventilated area. (P271)

Avoid release to the environment. (P273)

Wear protective gloves and eye protection. (P280)

## 【Response】

In case of fire : Use dry chemical powder, foam or carbon dioxide to extinguish. (P370+P378)

IF SWALLOWED : Immediately call a POISON CENTER or physician. (P301+P310)

IF ON SKIN : Wash with plenty of water and soap. (P302+P352)

IF ON SKIN (or hair) : Take off immediately all contaminated clothing. Rinse skin with water. (P303+P361+P353)

IF INHALED : Remove person to fresh air and keep comfortable for breathing. (P304+P340)

Call a POISON CENTER or physician if you feel unwell. (P312)

Do NOT induce vomiting. (P331)

If skin irritation occurs : Get medical advice and attention. (P332+P313)

Collect spillage. (P391)

## 【Storage】

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

## 【Disposal】

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

## 2.3. Other hazards

No information available.

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

Ingredients :

Chemical Name / Generic name	Composition weight %	CAS Registry No.	Hazard Class (category)	Hazard statement
Methylcyclohexane	40 ~ 50	108-87-2	Flam. Liq. 2 Skin Irrit. 2 STOT. SE. 3 Asp. Tox. 1 Aquatic Chronic 2	H225 H315 H336 H304 H411
Isoparaffinic Hydrocarbon	1 ~ 10	Confidential	Flam. Liq. 3 Asp. Tox. 1 Aquatic Chronic 2	H226 H304 H411
Synthetic resin	40 ~ 50	Confidential	none	none
Carbon black	1 ~ 10	1333-86-4	none	none
total	100			

**SECTION 4: First-aid measures**

## 4.1. Description of first aid measures

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

## SECTION 5: Firefighting-measures

### 5.1. Extinguishing media

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

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

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

### 5.3. Advice for firefighters

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

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

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

### 6.2. Environmental precautions

- Do not throw the leakage thing directly into environment

### 6.3. Methods and material for containment and cleaning up

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

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

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

### 7.2. Conditions for safe storage, including any incompatibilities

- Requirements for storage : 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)

Methylcyclohexane	TWA	400 ppm
Carbon black	TWA	3 mg/m <sup>3</sup>

EH40/2005 Workplace exposure limits (Fourth Edition, published 2020)

Carbon black	TWA	3.5 mg/m <sup>3</sup>
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ACGIH (2019)

Methylcyclohexane	TWA	400 ppm
Carbon black	TWA	3 mg/m <sup>3</sup>

### 8.2. Exposure controls

Personal protective equipment

- Respiratory Protection : Use with local exhaust ventilation, when in long use.  
 Avoid breathing vapours. Wear mask to prevent organic gas, if necessary.  
 Hand Protection : Avoid contact with hands. Wear safety gloves, if necessary.  
 Eye Protection : Avoid contact with eyes. Wear safety glasses, if necessary.  
 Skin Protection : Avoid skin contact. Wear personal protection apron, boots, if necessary.

Environmental exposure controls

- General advice : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Appearance** : Black liquid  
**Odour** : Minor solvent odour  
**pH** : Not applicable  
**Boiling point** : 100 ~ 153 °C  
**Flash point** : -3 °C (closed cup)  
**Relative Density (at 25°C)** : 0.8 ~ 1.0 (g/cm<sup>3</sup>)  
**Solubility in Water** : Insoluble

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2. Chemical stability

Thermally stable at typical use temperatures.

### 10.3. Possibility of hazardous reactions

No data available

### 10.4. Conditions to Avoid

High temperature, Direct sunlight, Fire

### 10.5. Incompatible Materials

No data available

### 10.6. Hazardous decomposition products

CO, CO<sub>2</sub>

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

- Acute toxicity** : LD/LC50 values that are relevant for classification  
[Methylcyclohexane ]  
Oral-rat LD50 >5,000 mg/kg  
Dermal-rabbit LD50 >2,000 mg/kg  
Inhalation-rat LC50 >20 mg/L/4h  
[Isoparaffinic Hydrocarbon]  
Oral-rat LD50 >5,000 mg/kg  
Dermal-rabbit LD50 >5,000 mg/kg
- Skin irritation** : Category 2 Causes skin irritation
- Specific target organ toxicity ; single exposure** : Category 3 May cause drowsiness or dizziness
- Aspiration hazard** : Category 1 May be fatal if swallowed and enters airways
- Carcinogenicity** : Carbon black has been classified by the IARC as Group 2B.  
Other materials ; Not contain any component that is considered a human carcinogen by IARC, ACGIH, EPA, EU or NTP.

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

## SECTION 12: Ecological information

- 12.1. Toxicity** : Category 2 Toxic to aquatic life with long lasting effects  
**12.2. Persistence and degradability** : No data available  
**12.3. Bioaccumulative potential** : No data available

- 12.4. Mobility in soil : No data available
- 12.5. Results of PBT and vPvB assessment : No data available
- 12.6. Other adverse effects : No data available

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

Disposal must be made according to official regulations.  
 Comply with all Federal, State, and Local regulations regarding disposal.  
**Do not allow product to reach ground, any water course or sewage system.**

**SECTION 14: Transport information**

Determination of whether a Dangerous Good based on ADG Code criteria.  
 UN Numbers listed as "UN" followed by 4 digits.  
 Dangerous Good Classes and Labels for all Dangerous Goods.  
 Special Provisions listed.  
 Road – ADG – Australian Dangerous Goods Code (Road and Rail)  
 Air – IATA – International Air Transport Association  
 Sea – IMDG – International Maritime Dangerous Goods

- 14.1. UN number ADG, IMDG, IATA : UN1210
- 14.2. UN proper shipping name ADG, IMDG, IATA : PRINTING INK, flammable
- 14.3. Transport hazard class(es) ADG, IMDG, IATA :
  - Class 3 (Flammable liquids)
  - Label 3
- 14.4. Packing group ADG, IMDG, IATA : II
- 14.5. Environmental hazards Marine pollutant : No
- 14.6. Special precautions for user EMS Number : F-E,S-D
- 14.7. HAZCHEM Code : 3YE (ADG7)



**SECTION 15: Regulatory information**

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

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

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

**15.2. Chemical safety assessment**

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

**SECTION 16: Other information**

**References**

Model Code of Practice	Preparation of Safety Data Sheets for Hazardous Chemicals Labelling of Workplace Hazardous Chemicals
GHS	Globally Harmonised System of Classification and Labelling of Chemicals

Safe Work Australia HSIS	<a href="http://hsis.safeworkaustralia.gov.au/HazardousSubstance">http://hsis.safeworkaustralia.gov.au/HazardousSubstance</a>
WES	Workplace Exposure Standards for Airborne Contaminants (2019)
ADG Code	Australian Code for the Transport of Dangerous Goods by Road & Rail Edition 7.6, 2018



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

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

# Safety Data Sheet

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"Model Code of Practice : Preparation of safety data sheets for hazardous chemicals"

Issued Date : 25 December 2013

Revised Date : 13 December, 2023

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

**1.1. Product identifier**

Product Name : Artline 400XF,409XF,440XF,444XF Paint Marker Colour : (Blue)

EK-400N, EK-409N, EK-440N, EK-444N



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

Recommended use : Paint marker ink



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

Supplier Company Name : ACCO Brands Australia Pty Ltd  
 Address : 2 Coronation Avenue, Kings Park, 2148 NSW, Australia  
 Phone : 02 9674 0900 (9am to 5pm AEST, Monday to Friday)  
 Contact (e-mail) : [sds.anz@acco.com](mailto:sds.anz@acco.com)  
 Website : [www.accobrand.com.au](http://www.accobrand.com.au)



Manufacturer Company Name : Shachihata Inc.  
 Address : 4-69,Amazuka-cho,Nishi-ku,Nagoya City,451-0021,Japan  
 Phone : +81-52-521-3600  
 Fax : +81-52-521-3899  
 Contact : <https://www.artlineworld.com/contact/>



**1.4. Emergency telephone number**

Poisons Information Centre : 13 11 26

**SECTION 2: Hazards identification**

Hazardous Substance , Dangerous Goods.

Classified as hazardous according to the criteria of Safe Work Australia (SWA - formerly NOHSC), and as Dangerous Goods according to the Australian Dangerous Goods (ADG) Code for Transport by Road and Rail.

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

**2.1.1. Classification (SWA)**

Flammable liquids, Category 2	H225 : Highly flammable liquid and vapour
Skin irritation, Category 2	H315 : Causes skin irritation
Specific target organ toxicity : single exposure, Category 3 (narcotic effects)	H336 : May cause drowsiness or dizziness
Aspiration toxicity, Category 1	H304 : May be fatal if swallowed and enters airways
Hazardous to the aquatic environment, chronic toxicity, Category 2	H411 : Toxic to aquatic life with long lasting effects

**2.2. Label elements**

Labelling (SWA)

Symbols :



Signal word : Danger

Hazard statement : Highly flammable liquid and vapour  
 Causes skin irritation  
 May cause drowsiness or dizziness  
 May be fatal if swallowed and enters airways

(H225)  
(H315)  
(H336)  
(H304)

## Toxic to aquatic life with long lasting effects

(H411)

## Precautionary statement

## 【Prevention】

Keep out of reach of children. (P102)

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. (P210)

Take precautionary measures against static discharge. (P243)

Avoid breathing vapours. (P261)

Wash hands thoroughly after handling. (P264)

Use only outdoors or in a well-ventilated area. (P271)

Avoid release to the environment. (P273)

Wear protective gloves and eye protection. (P280)

## 【Response】

In case of fire : Use dry chemical powder, foam or carbon dioxide to extinguish. (P370+P378)

IF SWALLOWED : Immediately call a POISON CENTER or physician. (P301+P310)

IF ON SKIN : Wash with plenty of water and soap. (P302+P352)

IF ON SKIN (or hair) : Take off immediately all contaminated clothing. Rinse skin with water. (P303+P361+P353)

IF INHALED : Remove person to fresh air and keep comfortable for breathing. (P304+P340)

Call a POISON CENTER or physician if you feel unwell. (P312)

Do NOT induce vomiting. (P331)

If skin irritation occurs : Get medical advice and attention. (P332+P313)

Collect spillage. (P391)

## 【Storage】

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

## 【Disposal】

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

## 2.3. Other hazards

No information available.

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

Ingredients :

Chemical Name / Generic name	Composition weight %	CAS Registry No.	Hazard Class (category)	Hazard statement
Isoparaffinic Hydrocarbon	45 ~ 55	Confidential	Flam. Liq. 2 Skin Irrit. 2 STOT. SE. 3 Asp. Tox. 1 Aquatic Chronic 2	H225 H315 H336 H304 H411
Synthetic resin	30 ~ 40	Confidential	none	none
Titanium dioxide	5 ~ 15	13463-67-7	none	none
Organic pigment	1 ~ 10	Confidential	none	none
total	100			

**SECTION 4: First-aid measures**

## 4.1. Description of first aid measures

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

**SECTION 5: Firefighting-measures**



### 5.1. Extinguishing media

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

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

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

### 5.3. Advice for firefighters

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

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

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

### 6.2. Environmental precautions

- Do not throw the leakage thing directly into environment

### 6.3. Methods and material for containment and cleaning up

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

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

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

### 7.2. Conditions for safe storage, including any incompatibilities

- Requirements for storage : 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)  
 Titanium dioxide TWA 10 mg/m<sup>3</sup>  
 EH40/2005 Workplace exposure limits (Fourth Edition, published 2020)  
 Titanium dioxide TWA 10 mg/m<sup>3</sup>  
 ACGIH (2019)  
 Titanium dioxide TWA 10 mg/m<sup>3</sup>  
 Material manufacturer data (reference value)  
 Isoparaffinic Hydrocarbon RCP-TWA 241 ppm

### 8.2. Exposure controls

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

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

<b>Appearance</b>	: Blue liquid
<b>Odour</b>	: Minor solvent odour
<b>pH</b>	: Not applicable
<b>Boiling point</b>	: 90 °C
<b>Flash point</b>	: 11 °C (closed cup)
<b>Relative Density (at 25°C)</b>	: 0.8 ~ 1.0 (g/cm <sup>3</sup> )
<b>Solubility in Water</b>	: Insoluble

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

No dangerous reaction known under conditions of normal use.

**10.2. Chemical stability**

Thermally stable at typical use temperatures.

**10.3. Possibility of hazardous reactions**

No data available

**10.4. Conditions to Avoid**

High temperature, Direct sunlight, Fire

**10.5. Incompatible Materials**

No data available

**10.6. Hazardous decomposition products**

CO, CO<sub>2</sub>

**SECTION 11: Toxicological information****11.1. Information on toxicological effects**

<b>Acute toxicity</b>	: LD/LC50 values that are relevant for classification [Isoparaffinic Hydrocarbon]		
	Oral-rat	LD50	>5,000 mg/kg
	Dermal-rabbit	LD50	>2,000 mg/kg
	Inhalation-rat	LC50	>20 mg/L/4h

**Skin irritation** : Category 2 Causes skin irritation

**Specific target organ toxicity ; single exposure** : Category 3 May cause drowsiness or dizziness

**Aspiration hazard** : Category 1 May be fatal if swallowed and enters airways

**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**

<b>12.1. Toxicity</b>	: Category 2 Toxic to aquatic life with long lasting effects
<b>12.2. Persistence and degradability</b>	: No data available
<b>12.3. Bioaccumulative potential</b>	: No data available
<b>12.4. Mobility in soil</b>	: No data available
<b>12.5. Results of PBT and vPvB assessment</b>	: No data available
<b>12.6. Other adverse effects</b>	: No data available

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

Disposal must be made according to official regulations.

Comply with all Federal, State, and Local regulations regarding disposal.  
**Do not allow product to reach ground, any water course or sewage system.**

**SECTION 14: Transport information**

Determination of whether a Dangerous Good based on ADG Code criteria.  
 UN Numbers listed as “UN” followed by 4 digits.  
 Dangerous Good Classes and Labels for all Dangerous Goods.  
 Special Provisions listed.  
 Road – ADG – Australian Dangerous Goods Code (Road and Rail)  
 Air – IATA – International Air Transport Association  
 Sea – IMDG – International Maritime Dangerous Goods

- 14.1. UN number** ADG, IMDG, IATA : UN1210
- 14.2. UN proper shipping name** ADG, IMDG, IATA : PRINTING INK, flammable
- 14.3. Transport hazard class(es)** ADG, IMDG, IATA :
  - Class 3 (Flammable liquids)
  - Label 3
- 14.4. Packing group** ADG, IMDG, IATA : II
- 14.5. Environmental hazards** Marine pollutant : No
- 14.6. Special precautions for user** EMS Number : F-E,S-D
- 14.7. HAZCHEM Code** : 3YE (ADG7)



**SECTION 15: Regulatory information**

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

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

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

**15.2. Chemical safety assessment**

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

**SECTION 16: Other information**

**References**

Model Code of Practice	Preparation of Safety Data Sheets for Hazardous Chemicals Labelling of Workplace Hazardous Chemicals
GHS	Globally Harmonised System of Classification and Labelling of Chemicals
Safe Work Australia HSIS	<a href="http://hsis.safeworkaustralia.gov.au/HazardousSubstance">http://hsis.safeworkaustralia.gov.au/HazardousSubstance</a>
WES	Workplace Exposure Standards for Airborne Contaminants (2019)
ADG Code	Australian Code for the Transport of Dangerous Goods by Road & Rail Edition 7.6, 2018



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

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

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"Model Code of Practice : Preparation of safety data sheets for hazardous chemicals"

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

**1.1. Product identifier**

Product Name : Artline 400XF Paint Marker      Colour : (Brown)  
 EK-400N



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

Recommended use : Paint marker ink

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

Supplier      Company Name : ACCO Brands Australia Pty Ltd  
 Address : 2 Coronation Avenue, Kings Park, 2148 NSW, Australia  
 Phone : 02 9674 0900 (9am to 5pm AEST, Monday to Friday)  
 Contact (e-mail) : [sds.anz@acco.com](mailto:sds.anz@acco.com)  
 Website : [www.accobrand.com.au](http://www.accobrand.com.au)

Manufacturer Company Name : Shachihata Inc.  
 Address : 4-69,Amazuka-cho,Nishi-ku,Nagoya City,451-0021,Japan  
 Phone : +81-52-521-3600  
 Fax : +81-52-521-3899  
 Contact : <https://www.artlineworld.com/contact/>

**1.4. Emergency telephone number**

Poisons Information Centre : 13 11 26

**SECTION 2: Hazards identification**

Hazardous Substance , Dangerous Goods.

Classified as hazardous according to the criteria of Safe Work Australia (SWA - formerly NOHSC), and as Dangerous Goods according to the Australian Dangerous Goods (ADG) Code for Transport by Road and Rail.

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

**2.1.1. Classification (SWA)**

Flammable liquids, Category 2	H225 : Highly flammable liquid and vapour
Skin irritation, Category 2	H315 : Causes skin irritation
Specific target organ toxicity ; single exposure, Category 3 (narcotic effects)	H336 : May cause drowsiness or dizziness
Aspiration toxicity, Category 1	H304 : May be fatal if swallowed and enters airways
Hazardous to the aquatic environment, chronic toxicity, Category 2	H411 : Toxic to aquatic life with long lasting effects

**2.2. Label elements**

Labelling (SWA)

Symbols :

Signal word : Danger

Hazard statement : Highly flammable liquid and vapour  
 Causes skin irritation  
 May cause drowsiness or dizziness  
 May be fatal if swallowed and enters airways

(H225)  
 (H315)  
 (H336)  
 (H304)

## Toxic to aquatic life with long lasting effects

(H411)

## Precautionary statement

## 【Prevention】

Keep out of reach of children. (P102)

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. (P210)

Take precautionary measures against static discharge. (P243)

Avoid breathing vapours. (P261)

Wash hands thoroughly after handling. (P264)

Use only outdoors or in a well-ventilated area. (P271)

Avoid release to the environment. (P273)

Wear protective gloves and eye protection. (P280)

## 【Response】

In case of fire : Use dry chemical powder, foam or carbon dioxide to extinguish. (P370+P378)

IF SWALLOWED : Immediately call a POISON CENTER or physician. (P301+P310)

IF ON SKIN : Wash with plenty of water and soap. (P302+P352)

IF ON SKIN (or hair) : Take off immediately all contaminated clothing. Rinse skin with water. (P303+P361+P353)

IF INHALED : Remove person to fresh air and keep comfortable for breathing. (P304+P340)

Call a POISON CENTER or physician if you feel unwell. (P312)

Do NOT induce vomiting. (P331)

If skin irritation occurs : Get medical advice and attention. (P332+P313)

Collect spillage. (P391)

## 【Storage】

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

## 【Disposal】

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

## 2.3. Other hazards

No information available.

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

Ingredients :

Chemical Name / Generic name	Composition weight %	CAS Registry No.	Hazard Class (category)	Hazard statement
Isoparaffinic Hydrocarbon	45 ~ 55	Confidential	Flam. Liq. 2 Skin Irrit. 2 STOT. SE. 3 Asp. Tox. 1 Aquatic Chronic 2	H225 H315 H336 H304 H411
Synthetic resin	35 ~ 45	Confidential	none	none
Titanium dioxide	1 ~ 10	13463-67-7	none	none
Organic pigment	1 ~ 10	Confidential	none	none
total	100			

**SECTION 4: First-aid measures**

## 4.1. Description of first aid measures

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

**SECTION 5: Firefighting-measures**

### 5.1. Extinguishing media

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

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

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

### 5.3. Advice for firefighters

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

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

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

### 6.2. Environmental precautions

- Do not throw the leakage thing directly into environment

### 6.3. Methods and material for containment and cleaning up

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

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

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

### 7.2. Conditions for safe storage, including any incompatibilities

- Requirements for storage : 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)  
 Titanium dioxide TWA 10 mg/m<sup>3</sup>  
 EH40/2005 Workplace exposure limits (Fourth Edition, published 2020)  
 Titanium dioxide TWA 10 mg/m<sup>3</sup>  
 ACGIH (2019)  
 Titanium dioxide TWA 10 mg/m<sup>3</sup>  
 Material manufacturer data (reference value)  
 Isoparaffinic Hydrocarbon RCP-TWA 241 ppm

### 8.2. Exposure controls

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

If the product contaminates rivers and lakes or drains inform respective authorities.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Appearance</b>	: Brown liquid
<b>Odour</b>	: Minor solvent odour
<b>pH</b>	: Not applicable
<b>Boiling point</b>	: 90 °C
<b>Flash point</b>	: 11 °C (closed cup)
<b>Relative Density (at 25°C)</b>	: 0.8 ~ 1.0 (g/cm <sup>3</sup> )
<b>Solubility in Water</b>	: Insoluble

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2. Chemical stability

Thermally stable at typical use temperatures.

### 10.3. Possibility of hazardous reactions

No data available

### 10.4. Conditions to Avoid

High temperature, Direct sunlight, Fire

### 10.5. Incompatible Materials

No data available

### 10.6. Hazardous decomposition products

CO, CO<sub>2</sub>

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

<b>Acute toxicity</b>	: LD/LC50 values that are relevant for classification [Isoparaffinic Hydrocarbon]
	Oral-rat                      LD50                      >5,000 mg/kg
	Dermal-rabbit              LD50                      >2,000 mg/kg
	Inhalation-rat              LC50                      >20 mg/L/4h
<b>Skin irritation</b>	: Category 2    Causes skin irritation
<b>Specific target organ toxicity ; single exposure</b>	: Category 3    May cause drowsiness or dizziness
<b>Aspiration hazard</b>	: Category 1    May be fatal if swallowed and enters airways
<b>Carcinogenicity</b>	: 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

<b>12.1. Toxicity</b>	: Category 2    Toxic to aquatic life with long lasting effects
<b>12.2. Persistence and degradability</b>	: No data available
<b>12.3. Bioaccumulative potential</b>	: No data available
<b>12.4. Mobility in soil</b>	: No data available
<b>12.5. Results of PBT and vPvB assessment</b>	: No data available
<b>12.6. Other adverse effects</b>	: No data available

## SECTION 13: Disposal considerations





# Safety Data Sheet

according to Safe Work Australia document

"Model Code of Practice : Preparation of safety data sheets for hazardous chemicals"

Issued Date : 25 December 2013

Revised Date : 13 December, 2023

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

**1.1. Product identifier**

Product Name : Artline 400XF,409XF,440XF,444XF Paint Marker Colour : (Green)  
 EK-400N, EK-409N, EK-440N, EK-444N



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

Recommended use : Paint marker ink



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

Supplier Company Name : ACCO Brands Australia Pty Ltd  
 Address : 2 Coronation Avenue, Kings Park, 2148 NSW, Australia  
 Phone : 02 9674 0900 (9am to 5pm AEST, Monday to Friday)  
 Contact (e-mail) : [sds.anz@acco.com](mailto:sds.anz@acco.com)  
 Website : [www.accobrands.com.au](http://www.accobrands.com.au)

Manufacturer Company Name : Shachihata Inc.  
 Address : 4-69,Amazuka-cho,Nishi-ku,Nagoya City,451-0021,Japan  
 Phone : +81-52-521-3600  
 Fax : +81-52-521-3899  
 Contact : <https://www.artlineworld.com/contact/>



**1.4. Emergency telephone number**

Poisons Information Centre : 13 11 26

**SECTION 2: Hazards identification**

Hazardous Substance , Dangerous Goods.

Classified as hazardous according to the criteria of Safe Work Australia (SWA - formerly NOHSC), and as Dangerous Goods according to the Australian Dangerous Goods (ADG) Code for Transport by Road and Rail.

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

**2.1.1. Classification (SWA)**

Flammable liquids, Category 2	H225 : Highly flammable liquid and vapour
Skin irritation, Category 2	H315 : Causes skin irritation
Specific target organ toxicity ; single exposure, Category 3 (narcotic effects)	H336 : May cause drowsiness or dizziness
Aspiration toxicity, Category 1	H304 : May be fatal if swallowed and enters airways
Hazardous to the aquatic environment, chronic toxicity, Category 2	H411 : Toxic to aquatic life with long lasting effects

**2.2. Label elements**

Labelling (SWA)

Symbols : 

Signal word : Danger

Hazard statement	: Highly flammable liquid and vapour	(H225)
	: Causes skin irritation	(H315)
	: May cause drowsiness or dizziness	(H336)
	: May be fatal if swallowed and enters airways	(H304)

## Toxic to aquatic life with long lasting effects

(H411)

## Precautionary statement

## 【Prevention】

Keep out of reach of children. (P102)

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. (P210)

Take precautionary measures against static discharge. (P243)

Avoid breathing vapours. (P261)

Wash hands thoroughly after handling. (P264)

Use only outdoors or in a well-ventilated area. (P271)

Avoid release to the environment. (P273)

Wear protective gloves and eye protection. (P280)

## 【Response】

In case of fire : Use dry chemical powder, foam or carbon dioxide to extinguish. (P370+P378)

IF SWALLOWED : Immediately call a POISON CENTER or physician. (P301+P310)

IF ON SKIN : Wash with plenty of water and soap. (P302+P352)

IF ON SKIN (or hair) : Take off immediately all contaminated clothing. Rinse skin with water. (P303+P361+P353)

IF INHALED : Remove person to fresh air and keep comfortable for breathing. (P304+P340)

Call a POISON CENTER or physician if you feel unwell. (P312)

Do NOT induce vomiting. (P331)

If skin irritation occurs : Get medical advice and attention. (P332+P313)

Collect spillage. (P391)

## 【Storage】

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

## 【Disposal】

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

## 2.3. Other hazards

No information available.

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

Ingredients :

Chemical Name / Generic name	Composition weight %	CAS Registry No.	Hazard Class (category)	Hazard statement
Isoparaffinic Hydrocarbon	50 ~ 60	Confidential	Flam. Liq. 2 Skin Irrit. 2 STOT. SE. 3 Asp. Tox. 1 Aquatic Chronic 2	H225 H315 H336 H304 H411
Synthetic resin	25 ~ 35	Confidential	none	none
Titanium dioxide	5 ~ 15	13463-67-7	none	none
Organic pigment	1 ~ 10	Confidential	none	none
total	100			

**SECTION 4: First-aid measures**

## 4.1. Description of first aid measures

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

**SECTION 5: Firefighting-measures**

### 5.1. Extinguishing media

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

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

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

### 5.3. Advice for firefighters

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

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

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

### 6.2. Environmental precautions

- Do not throw the leakage thing directly into environment

### 6.3. Methods and material for containment and cleaning up

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

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

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

### 7.2. Conditions for safe storage, including any incompatibilities

- Requirements for storage : 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)  
 Titanium dioxide TWA 10 mg/m<sup>3</sup>  
 EH40/2005 Workplace exposure limits (Fourth Edition, published 2020)  
 Titanium dioxide TWA 10 mg/m<sup>3</sup>  
 ACGIH (2019)  
 Titanium dioxide TWA 10 mg/m<sup>3</sup>  
 Material manufacturer data (reference value)  
 Isoparaffinic Hydrocarbon RCP-TWA 241 ppm

### 8.2. Exposure controls

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

If the product contaminates rivers and lakes or drains inform respective authorities.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Appearance</b>	: Green liquid
<b>Odour</b>	: Minor solvent odour
<b>pH</b>	: Not applicable
<b>Boiling point</b>	: 90 °C
<b>Flash point</b>	: 11 °C (closed cup)
<b>Relative Density (at 25°C)</b>	: 0.8 ~ 1.0 (g/cm <sup>3</sup> )
<b>Solubility in Water</b>	: Insoluble

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2. Chemical stability

Thermally stable at typical use temperatures.

### 10.3. Possibility of hazardous reactions

No data available

### 10.4. Conditions to Avoid

High temperature, Direct sunlight, Fire

### 10.5. Incompatible Materials

No data available

### 10.6. Hazardous decomposition products

CO, CO<sub>2</sub>

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

<b>Acute toxicity</b>	: LD/LC50 values that are relevant for classification [Isoparaffinic Hydrocarbon]
	Oral-rat                      LD50                      >5,000 mg/kg
	Dermal-rabbit              LD50                      >2,000 mg/kg
	Inhalation-rat              LC50                      >20 mg/L/4h
<b>Skin irritation</b>	: Category 2    Causes skin irritation
<b>Specific target organ toxicity ; single exposure</b>	: Category 3    May cause drowsiness or dizziness
<b>Aspiration hazard</b>	: Category 1    May be fatal if swallowed and enters airways
<b>Carcinogenicity</b>	: 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

<b>12.1. Toxicity</b>	: Category 2    Toxic to aquatic life with long lasting effects
<b>12.2. Persistence and degradability</b>	: No data available
<b>12.3. Bioaccumulative potential</b>	: No data available
<b>12.4. Mobility in soil</b>	: No data available
<b>12.5. Results of PBT and vPvB assessment</b>	: No data available
<b>12.6. Other adverse effects</b>	: 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

<b>14.1. UN number</b>	ADG, IMDG, IATA	: UN1210
<b>14.2. UN proper shipping name</b>	ADG, IMDG, IATA	: PRINTING INK, flammable
<b>14.3. Transport hazard class(es)</b>	ADG, IMDG, IATA	:
	· Class	3 (Flammable liquids)
	· Label	3
<b>14.4. Packing group</b>	ADG, IMDG, IATA	: II
<b>14.5. Environmental hazards</b>	Marine pollutant	: No
<b>14.6. Special precautions for user</b>	EMS Number	: F-E,S-D
<b>14.7. HAZCHEM Code</b>		: 3YE (ADG7)



## SECTION 15: Regulatory information

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

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

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

### 15.2. Chemical safety assessment

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

## SECTION 16: Other information

### References

Model Code of Practice	Preparation of Safety Data Sheets for Hazardous Chemicals Labelling of Workplace Hazardous Chemicals
GHS	Globally Harmonised System of Classification and Labelling of Chemicals
Safe Work Australia HSIS	<a href="http://hsis.safeworkaustralia.gov.au/HazardousSubstance">http://hsis.safeworkaustralia.gov.au/HazardousSubstance</a>
WES	Workplace Exposure Standards for Airborne Contaminants (2019)
ADG Code	Australian Code for the Transport of Dangerous Goods by Road & Rail Edition 7.6, 2018



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

EU RoHS (Directive 2011/65/EU)

EU ELV (DIRECTIVE 2000/53/EC)

# Safety Data Sheet

according to Safe Work Australia document

"Model Code of Practice : Preparation of safety data sheets for hazardous chemicals"

Issued Date : 25 December 2013

Revised Date : 13 December, 2023

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

**1.1. Product identifier**

Product Name : Artline 400XF Paint Marker



EK-400N Colour : (Light blue)

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

Recommended use : Paint marker ink

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

Supplier	Company Name	: ACCO Brands Australia Pty Ltd
	Address	: 2 Coronation Avenue, Kings Park, 2148 NSW, Australia
	Phone	: 02 9674 0900 (9am to 5pm AEST, Monday to Friday)
	Contact (e-mail)	: <a href="mailto:sds.anz@acco.com">sds.anz@acco.com</a>
	Website	: <a href="http://www.accobrand.com.au">www.accobrand.com.au</a>
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	: <a href="https://www.artlineworld.com/contact/">https://www.artlineworld.com/contact/</a>

**1.4. Emergency telephone number**

Poisons Information Centre : 13 11 26

**SECTION 2: Hazards identification**

Hazardous Substance , Dangerous Goods.

Classified as hazardous according to the criteria of Safe Work Australia (SWA - formerly NOHSC), and as Dangerous Goods according to the Australian Dangerous Goods (ADG) Code for Transport by Road and Rail.

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

**2.1.1. Classification (SWA)**

Flammable liquids, Category 2	H225 : Highly flammable liquid and vapour
Skin irritation, Category 2	H315 : Causes skin irritation
Specific target organ toxicity ; single exposure, Category 3 (narcotic effects)	H336 : May cause drowsiness or dizziness
Aspiration toxicity, Category 1	H304 : May be fatal if swallowed and enters airways
Hazardous to the aquatic environment, chronic toxicity, Category 2	H411 : Toxic to aquatic life with long lasting effects

**2.2. Label elements**

Labelling (SWA)

Symbols :

Signal word : Danger

Hazard statement : Highly flammable liquid and vapour  
 Causes skin irritation  
 May cause drowsiness or dizziness  
 May be fatal if swallowed and enters airways

(H225)  
(H315)  
(H336)  
(H304)

## Toxic to aquatic life with long lasting effects

(H411)

## Precautionary statement

## 【Prevention】

Keep out of reach of children. (P102)

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. (P210)

Take precautionary measures against static discharge. (P243)

Avoid breathing vapours. (P261)

Wash hands thoroughly after handling. (P264)

Use only outdoors or in a well-ventilated area. (P271)

Avoid release to the environment. (P273)

Wear protective gloves and eye protection. (P280)

## 【Response】

In case of fire : Use dry chemical powder, foam or carbon dioxide to extinguish. (P370+P378)

IF SWALLOWED : Immediately call a POISON CENTER or physician. (P301+P310)

IF ON SKIN : Wash with plenty of water and soap. (P302+P352)

IF ON SKIN (or hair) : Take off immediately all contaminated clothing. Rinse skin with water. (P303+P361+P353)

IF INHALED : Remove person to fresh air and keep comfortable for breathing. (P304+P340)

Call a POISON CENTER or physician if you feel unwell. (P312)

Do NOT induce vomiting. (P331)

If skin irritation occurs : Get medical advice and attention. (P332+P313)

Collect spillage. (P391)

## 【Storage】

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

## 【Disposal】

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

## 2.3. Other hazards

No information available.

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

Ingredients :

Chemical Name / Generic name	Composition weight %	CAS Registry No.	Hazard Class (category)	Hazard statement
Isoparaffinic Hydrocarbon	45 ~ 55	Confidential	Flam. Liq. 2 Skin Irrit. 2 STOT. SE. 3 Asp. Tox. 1 Aquatic Chronic 2	H225 H315 H336 H304 H411
Synthetic resin	30 ~ 40	Confidential	none	none
Titanium dioxide	5 ~ 15	13463-67-7	none	none
Organic pigment	1 ~ 10	Confidential	none	none
total	100			

**SECTION 4: First-aid measures**

## 4.1. Description of first aid measures

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

**SECTION 5: Firefighting-measures**

### 5.1. Extinguishing media

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

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

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

### 5.3. Advice for firefighters

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

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

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

### 6.2. Environmental precautions

Do not throw the leakage thing directly into environment

### 6.3. Methods and material for containment and cleaning up

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

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

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

### 7.2. Conditions for safe storage, including any incompatibilities

- Requirements for storage : 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)		
Titanium dioxide	TWA	10 mg/m <sup>3</sup>
EH40/2005 Workplace exposure limits (Fourth Edition, published 2020)		
Titanium dioxide	TWA	10 mg/m <sup>3</sup>
ACGIH (2019)		
Titanium dioxide	TWA	10 mg/m <sup>3</sup>
Material manufacturer data (reference value)		
Isoparaffinic Hydrocarbon	RCP-TWA	241 ppm

### 8.2. Exposure controls

Personal protective equipment

- Respiratory Protection : Use with local exhaust ventilation, when in long use.  
 Avoid breathing vapours. Wear mask to prevent organic gas, if necessary.  
 Hand Protection : Avoid contact with hands. Wear safety gloves, if necessary.  
 Eye Protection : Avoid contact with eyes. Wear safety glasses, if necessary.  
 Skin Protection : Avoid skin contact. Wear personal protection apron, boots, if necessary.

Environmental exposure controls

- General advice : Prevent product from entering drains.  
 Prevent further leakage or spillage if safe to do so.



If the product contaminates rivers and lakes or drains inform respective authorities.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Appearance</b>	: Light blue liquid
<b>Odour</b>	: Minor solvent odour
<b>pH</b>	: Not applicable
<b>Boiling point</b>	: 90 °C
<b>Flash point</b>	: 11 °C (closed cup)
<b>Relative Density (at 25°C)</b>	: 0.8 ~ 1.0 (g/cm <sup>3</sup> )
<b>Solubility in Water</b>	: Insoluble

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2. Chemical stability

Thermally stable at typical use temperatures.

### 10.3. Possibility of hazardous reactions

No data available

### 10.4. Conditions to Avoid

High temperature, Direct sunlight, Fire

### 10.5. Incompatible Materials

No data available

### 10.6. Hazardous decomposition products

CO, CO<sub>2</sub>

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

<b>Acute toxicity</b>	: LD/LC50 values that are relevant for classification [Isoparaffinic Hydrocarbon]
	Oral-rat                      LD50                      >5,000 mg/kg
	Dermal-rabbit              LD50                      >2,000 mg/kg
	Inhalation-rat              LC50                      >20 mg/L/4h
<b>Skin irritation</b>	: Category 2    Causes skin irritation
<b>Specific target organ toxicity ; single exposure</b>	: Category 3    May cause drowsiness or dizziness
<b>Aspiration hazard</b>	: Category 1    May be fatal if swallowed and enters airways
<b>Carcinogenicity</b>	: 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

<b>12.1. Toxicity</b>	: Category 2    Toxic to aquatic life with long lasting effects
<b>12.2. Persistence and degradability</b>	: No data available
<b>12.3. Bioaccumulative potential</b>	: No data available
<b>12.4. Mobility in soil</b>	: No data available
<b>12.5. Results of PBT and vPvB assessment</b>	: No data available
<b>12.6. Other adverse effects</b>	: No data available

## SECTION 13: Disposal considerations

**13.1. Waste treatment methods**

Disposal must be made according to official regulations.  
 Comply with all Federal, State, and Local regulations regarding disposal.  
**Do not allow product to reach ground, any water course or sewage system.**

**SECTION 14: Transport information**

Determination of whether a Dangerous Good based on ADG Code criteria.  
 UN Numbers listed as “UN” followed by 4 digits.  
 Dangerous Good Classes and Labels for all Dangerous Goods.  
 Special Provisions listed.  
 Road – ADG – Australian Dangerous Goods Code (Road and Rail)  
 Air – IATA – International Air Transport Association  
 Sea – IMDG – International Maritime Dangerous Goods

- 14.1. UN number** ADG, IMDG, IATA : UN1210
- 14.2. UN proper shipping name** ADG, IMDG, IATA : PRINTING INK, flammable
- 14.3. Transport hazard class(es)** ADG, IMDG, IATA :
  - Class 3 (Flammable liquids)
  - Label 3
- 14.4. Packing group** ADG, IMDG, IATA : II
- 14.5. Environmental hazards** Marine pollutant : No
- 14.6. Special precautions for user** EMS Number : F-E,S-D
- 14.7. HAZCHEM Code** : 3YE (ADG7)



**SECTION 15: Regulatory information**

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

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

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

**15.2. Chemical safety assessment**

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

**SECTION 16: Other information**

**References**

Model Code of Practice	Preparation of Safety Data Sheets for Hazardous Chemicals Labelling of Workplace Hazardous Chemicals
GHS	Globally Harmonised System of Classification and Labelling of Chemicals
Safe Work Australia HSIS	<a href="http://hsis.safeworkaustralia.gov.au/HazardousSubstance">http://hsis.safeworkaustralia.gov.au/HazardousSubstance</a>
WES	Workplace Exposure Standards for Airborne Contaminants (2019)
ADG Code	Australian Code for the Transport of Dangerous Goods by Road & Rail Edition 7.6, 2018



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

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

# Safety Data Sheet

according to Safe Work Australia document

"Model Code of Practice : Preparation of safety data sheets for hazardous chemicals"

Issued Date : 25 December 2013

Revised Date : 13 December, 2023

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

**1.1. Product identifier**

Product Name : Artline 400XF Paint Marker Colour : (Orange)  
 EK-400N



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

Recommended use : Paint marker ink

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

Supplier Company Name : ACCO Brands Australia Pty Ltd  
 Address : 2 Coronation Avenue, Kings Park, 2148 NSW, Australia  
 Phone : 02 9674 0900 (9am to 5pm AEST, Monday to Friday)  
 Contact (e-mail) : [sds.anz@acco.com](mailto:sds.anz@acco.com)  
 Website : [www.accobrand.com.au](http://www.accobrand.com.au)

Manufacturer Company Name : Shachihata Inc.  
 Address : 4-69,Amazuka-cho,Nishi-ku,Nagoya City,451-0021,Japan  
 Phone : +81-52-521-3600  
 Fax : +81-52-521-3899  
 Contact : <https://www.artlineworld.com/contact/>

**1.4. Emergency telephone number**

Poisons Information Centre : 13 11 26

**SECTION 2: Hazards identification**

Hazardous Substance , Dangerous Goods.

Classified as hazardous according to the criteria of Safe Work Australia (SWA - formerly NOHSC), and as Dangerous Goods according to the Australian Dangerous Goods (ADG) Code for Transport by Road and Rail.

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

**2.1.1. Classification (SWA)**

Flammable liquids, Category 2	H225 : Highly flammable liquid and vapour
Skin irritation, Category 2	H315 : Causes skin irritation
Specific target organ toxicity ; single exposure, Category 3 (narcotic effects)	H336 : May cause drowsiness or dizziness
Aspiration toxicity, Category 1	H304 : May be fatal if swallowed and enters airways
Hazardous to the aquatic environment, chronic toxicity, Category 2	H411 : Toxic to aquatic life with long lasting effects

**2.2. Label elements**

Labelling (SWA)

Symbols : 

Signal word : Danger

Hazard statement : Highly flammable liquid and vapour  
 Causes skin irritation  
 May cause drowsiness or dizziness  
 May be fatal if swallowed and enters airways

(H225)  
 (H315)  
 (H336)  
 (H304)

## Toxic to aquatic life with long lasting effects

(H411)

## Precautionary statement

## 【Prevention】

Keep out of reach of children. (P102)

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. (P210)

Take precautionary measures against static discharge. (P243)

Avoid breathing vapours. (P261)

Wash hands thoroughly after handling. (P264)

Use only outdoors or in a well-ventilated area. (P271)

Avoid release to the environment. (P273)

Wear protective gloves and eye protection. (P280)

## 【Response】

In case of fire : Use dry chemical powder, foam or carbon dioxide to extinguish. (P370+P378)

IF SWALLOWED : Immediately call a POISON CENTER or physician. (P301+P310)

IF ON SKIN : Wash with plenty of water and soap. (P302+P352)

IF ON SKIN (or hair) : Take off immediately all contaminated clothing. Rinse skin with water. (P303+P361+P353)

IF INHALED : Remove person to fresh air and keep comfortable for breathing. (P304+P340)

Call a POISON CENTER or physician if you feel unwell. (P312)

Do NOT induce vomiting. (P331)

If skin irritation occurs : Get medical advice and attention. (P332+P313)

Collect spillage. (P391)

## 【Storage】

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

## 【Disposal】

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

## 2.3. Other hazards

No information available.

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

Ingredients :

Chemical Name / Generic name	Composition weight %	CAS Registry No.	Hazard Class (category)	Hazard statement
Isoparaffinic Hydrocarbon	45 ~ 55	Confidential	Flam. Liq. 2 Skin Irrit. 2 STOT. SE. 3 Asp. Tox. 1 Aquatic Chronic 2	H225 H315 H336 H304 H411
Synthetic resin	35 ~ 45	Confidential	none	none
Titanium dioxide	1 ~ 10	13463-67-7	none	none
Organic pigment	1 ~ 10	Confidential	none	none
total	100			

**SECTION 4: First-aid measures**

## 4.1. Description of first aid measures

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

**SECTION 5: Firefighting-measures**

### 5.1. Extinguishing media

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

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

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

### 5.3. Advice for firefighters

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

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

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

### 6.2. Environmental precautions

- Do not throw the leakage thing directly into environment

### 6.3. Methods and material for containment and cleaning up

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

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

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

### 7.2. Conditions for safe storage, including any incompatibilities

- Requirements for storage : 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)  
 Titanium dioxide TWA 10 mg/m<sup>3</sup>  
 EH40/2005 Workplace exposure limits (Fourth Edition, published 2020)  
 Titanium dioxide TWA 10 mg/m<sup>3</sup>  
 ACGIH (2019)  
 Titanium dioxide TWA 10 mg/m<sup>3</sup>  
 Material manufacturer data (reference value)  
 Isoparaffinic Hydrocarbon RCP-TWA 241 ppm

### 8.2. Exposure controls

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

If the product contaminates rivers and lakes or drains inform respective authorities.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Appearance</b>	: Orange liquid
<b>Odour</b>	: Minor solvent odour
<b>pH</b>	: Not applicable
<b>Boiling point</b>	: 90 °C
<b>Flash point</b>	: 11 °C (closed cup)
<b>Relative Density (at 25°C)</b>	: 0.8 ~ 1.0 (g/cm <sup>3</sup> )
<b>Solubility in Water</b>	: Insoluble

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2. Chemical stability

Thermally stable at typical use temperatures.

### 10.3. Possibility of hazardous reactions

No data available

### 10.4. Conditions to Avoid

High temperature, Direct sunlight, Fire

### 10.5. Incompatible Materials

No data available

### 10.6. Hazardous decomposition products

CO, CO<sub>2</sub>

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

<b>Acute toxicity</b>	: LD/LC50 values that are relevant for classification [Isoparaffinic Hydrocarbon]
	Oral-rat                      LD50                      >5,000 mg/kg
	Dermal-rabbit              LD50                      >2,000 mg/kg
	Inhalation-rat              LC50                      >20 mg/L/4h
<b>Skin irritation</b>	: Category 2    Causes skin irritation
<b>Specific target organ toxicity ; single exposure</b>	: Category 3    May cause drowsiness or dizziness
<b>Aspiration hazard</b>	: Category 1    May be fatal if swallowed and enters airways
<b>Carcinogenicity</b>	: 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

<b>12.1. Toxicity</b>	: Category 2    Toxic to aquatic life with long lasting effects
<b>12.2. Persistence and degradability</b>	: No data available
<b>12.3. Bioaccumulative potential</b>	: No data available
<b>12.4. Mobility in soil</b>	: No data available
<b>12.5. Results of PBT and vPvB assessment</b>	: No data available
<b>12.6. Other adverse effects</b>	: No data available

## SECTION 13: Disposal considerations



# Safety Data Sheet

according to Safe Work Australia document

"Model Code of Practice : Preparation of safety data sheets for hazardous chemicals"

Issued Date : 25 December 2013

Revised Date : 13 December, 2023

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

**1.1. Product identifier**

Product Name : Artline 400XF Paint Marker Colour : (Pink)  
 EK-400N



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

Recommended use : Paint marker ink

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

Supplier Company Name : ACCO Brands Australia Pty Ltd  
 Address : 2 Coronation Avenue, Kings Park, 2148 NSW, Australia  
 Phone : 02 9674 0900 (9am to 5pm AEST, Monday to Friday)  
 Contact (e-mail) : [sds.anz@acco.com](mailto:sds.anz@acco.com)  
 Website : [www.accobrand.com.au](http://www.accobrand.com.au)

Manufacturer Company Name : Shachihata Inc.  
 Address : 4-69,Amazuka-cho,Nishi-ku,Nagoya City,451-0021,Japan  
 Phone : +81-52-521-3600  
 Fax : +81-52-521-3899  
 Contact : <https://www.artlineworld.com/contact/>

**1.4. Emergency telephone number**

Poisons Information Centre : 13 11 26

**SECTION 2: Hazards identification**

Hazardous Substance , Dangerous Goods.

Classified as hazardous according to the criteria of Safe Work Australia (SWA - formerly NOHSC), and as Dangerous Goods according to the Australian Dangerous Goods (ADG) Code for Transport by Road and Rail.

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

**2.1.1. Classification (SWA)**

Flammable liquids, Category 2	H225 : Highly flammable liquid and vapour
Skin irritation, Category 2	H315 : Causes skin irritation
Specific target organ toxicity ; single exposure, Category 3 (narcotic effects)	H336 : May cause drowsiness or dizziness
Aspiration toxicity, Category 1	H304 : May be fatal if swallowed and enters airways
Hazardous to the aquatic environment, chronic toxicity, Category 2	H411 : Toxic to aquatic life with long lasting effects

**2.2. Label elements**

Labelling (SWA)

Symbols :    

Signal word : Danger

Hazard statement : Highly flammable liquid and vapour  
 Causes skin irritation  
 May cause drowsiness or dizziness  
 May be fatal if swallowed and enters airways

(H225)  
 (H315)  
 (H336)  
 (H304)



## Toxic to aquatic life with long lasting effects

(H411)

## Precautionary statement

## 【Prevention】

Keep out of reach of children. (P102)

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. (P210)

Take precautionary measures against static discharge. (P243)

Avoid breathing vapours. (P261)

Wash hands thoroughly after handling. (P264)

Use only outdoors or in a well-ventilated area. (P271)

Avoid release to the environment. (P273)

Wear protective gloves and eye protection. (P280)

## 【Response】

In case of fire : Use dry chemical powder, foam or carbon dioxide to extinguish. (P370+P378)

IF SWALLOWED : Immediately call a POISON CENTER or physician. (P301+P310)

IF ON SKIN : Wash with plenty of water and soap. (P302+P352)

IF ON SKIN (or hair) : Take off immediately all contaminated clothing. Rinse skin with water. (P303+P361+P353)

IF INHALED : Remove person to fresh air and keep comfortable for breathing. (P304+P340)

Call a POISON CENTER or physician if you feel unwell. (P312)

Do NOT induce vomiting. (P331)

If skin irritation occurs : Get medical advice and attention. (P332+P313)

Collect spillage. (P391)

## 【Storage】

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

## 【Disposal】

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

## 2.3. Other hazards

No information available.

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

Ingredients :

Chemical Name / Generic name	Composition weight %	CAS Registry No.	Hazard Class (category)	Hazard statement
Isoparaffinic Hydrocarbon	40 ~ 50	Confidential	Flam. Liq. 2 Skin Irrit. 2 STOT. SE. 3 Asp. Tox. 1 Aquatic Chronic 2	H225 H315 H336 H304 H411
Synthetic resin	30 ~ 40	Confidential	none	none
Titanium dioxide	10 ~ 20	13463-67-7	none	none
Organic pigment	1 ~ 10	Confidential	none	none
total	100			

**SECTION 4: First-aid measures**

## 4.1. Description of first aid measures

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

**SECTION 5: Firefighting-measures**

### 5.1. Extinguishing media

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

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

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

### 5.3. Advice for firefighters

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

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

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

### 6.2. Environmental precautions

- Do not throw the leakage thing directly into environment

### 6.3. Methods and material for containment and cleaning up

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

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

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

### 7.2. Conditions for safe storage, including any incompatibilities

- Requirements for storage : 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)

Titanium dioxide	TWA	10 mg/m <sup>3</sup>
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EH40/2005 Workplace exposure limits (Fourth Edition, published 2020)

Titanium dioxide	TWA	10 mg/m <sup>3</sup>
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ACGIH (2019)

Titanium dioxide	TWA	10 mg/m <sup>3</sup>
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Material manufacturer data (reference value)

Isoparaffinic Hydrocarbon	RCP-TWA	241 ppm
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### 8.2. Exposure controls

Personal protective equipment

- Respiratory Protection : Use with local exhaust ventilation, when in long use.  
 Avoid breathing vapours. Wear mask to prevent organic gas, if necessary.  
 Hand Protection : Avoid contact with hands. Wear safety gloves, if necessary.  
 Eye Protection : Avoid contact with eyes. Wear safety glasses, if necessary.  
 Skin Protection : Avoid skin contact. Wear personal protection apron, boots, if necessary.

Environmental exposure controls

- General advice : Prevent product from entering drains.  
 Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform respective authorities.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Appearance</b>	: Pink liquid
<b>Odour</b>	: Minor solvent odour
<b>pH</b>	: Not applicable
<b>Boiling point</b>	: 90 °C
<b>Flash point</b>	: 11 °C (closed cup)
<b>Relative Density (at 25°C)</b>	: 0.9 ~ 1.1 (g/cm <sup>3</sup> )
<b>Solubility in Water</b>	: Insoluble

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2. Chemical stability

Thermally stable at typical use temperatures.

### 10.3. Possibility of hazardous reactions

No data available

### 10.4. Conditions to Avoid

High temperature, Direct sunlight, Fire

### 10.5. Incompatible Materials

No data available

### 10.6. Hazardous decomposition products

CO, CO<sub>2</sub>

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

<b>Acute toxicity</b>	: LD/LC50 values that are relevant for classification [Isoparaffinic Hydrocarbon]
Oral-rat	LD50 >5,000 mg/kg
Dermal-rabbit	LD50 >2,000 mg/kg
Inhalation-rat	LC50 >20 mg/L/4h
<b>Skin irritation</b>	: Category 2 Causes skin irritation
<b>Specific target organ toxicity ; single exposure</b>	: Category 3 May cause drowsiness or dizziness
<b>Aspiration hazard</b>	: Category 1 May be fatal if swallowed and enters airways
<b>Carcinogenicity</b>	: 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

<b>12.1. Toxicity</b>	: Category 2 Toxic to aquatic life with long lasting effects
<b>12.2. Persistence and degradability</b>	: No data available
<b>12.3. Bioaccumulative potential</b>	: No data available
<b>12.4. Mobility in soil</b>	: No data available
<b>12.5. Results of PBT and vPvB assessment</b>	: No data available
<b>12.6. Other adverse effects</b>	: No data available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Disposal must be made according to official regulations.  
 Comply with all Federal, State, and Local regulations regarding disposal.  
**Do not allow product to reach ground, any water course or sewage system.**

## SECTION 14: Transport information

Determination of whether a Dangerous Good based on ADG Code criteria.  
 UN Numbers listed as "UN" followed by 4 digits.  
 Dangerous Good Classes and Labels for all Dangerous Goods.  
 Special Provisions listed.  
 Road – ADG – Australian Dangerous Goods Code (Road and Rail)  
 Air – IATA – International Air Transport Association  
 Sea – IMDG – International Maritime Dangerous Goods

- 14.1. UN number** ADG, IMDG, IATA : UN1210
- 14.2. UN proper shipping name** ADG, IMDG, IATA : PRINTING INK, flammable
- 14.3. Transport hazard class(es)** ADG, IMDG, IATA :
  - Class 3 (Flammable liquids)
  - Label 3
- 14.4. Packing group** ADG, IMDG, IATA : II
- 14.5. Environmental hazards** Marine pollutant : No
- 14.6. Special precautions for user** EMS Number : F-E,S-D
- 14.7. HAZCHEM Code** : 3YE (ADG7)



## SECTION 15: Regulatory information

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

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

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

### 15.2. Chemical safety assessment

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

## SECTION 16: Other information

### References

Model Code of Practice	Preparation of Safety Data Sheets for Hazardous Chemicals Labelling of Workplace Hazardous Chemicals
GHS	Globally Harmonised System of Classification and Labelling of Chemicals
Safe Work Australia HSIS	<a href="http://hsis.safeworkaustralia.gov.au/HazardousSubstance">http://hsis.safeworkaustralia.gov.au/HazardousSubstance</a>
WES	Workplace Exposure Standards for Airborne Contaminants (2019)
ADG Code	Australian Code for the Transport of Dangerous Goods by Road & Rail Edition 7.6, 2018



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

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

# Safety Data Sheet

according to Safe Work Australia document

"Model Code of Practice : Preparation of safety data sheets for hazardous chemicals"

Issued Date : 25 December 2013

Revised Date : 13 December, 2023

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

**1.1. Product identifier**

Product Name : Artline 400XF Paint Marker      Colour : (Purple)  
 EK-400N



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

Recommended use : Paint marker ink

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

Supplier      Company Name : ACCO Brands Australia Pty Ltd  
 Address : 2 Coronation Avenue, Kings Park, 2148 NSW, Australia  
 Phone : 02 9674 0900 (9am to 5pm AEST, Monday to Friday)  
 Contact (e-mail) : [sds.anz@acco.com](mailto:sds.anz@acco.com)  
 Website : [www.accobrand.com.au](http://www.accobrand.com.au)

Manufacturer Company Name : Shachihata Inc.  
 Address : 4-69,Amazuka-cho,Nishi-ku,Nagoya City,451-0021,Japan  
 Phone : +81-52-521-3600  
 Fax : +81-52-521-3899  
 Contact : <https://www.artlineworld.com/contact/>

**1.4. Emergency telephone number**

Poisons Information Centre : 13 11 26

**SECTION 2: Hazards identification**

Hazardous Substance , Dangerous Goods.

Classified as hazardous according to the criteria of Safe Work Australia (SWA - formerly NOHSC), and as Dangerous Goods according to the Australian Dangerous Goods (ADG) Code for Transport by Road and Rail.

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

**2.1.1. Classification (SWA)**

Flammable liquids, Category 2	H225 : Highly flammable liquid and vapour
Skin irritation, Category 2	H315 : Causes skin irritation
Specific target organ toxicity ; single exposure, Category 3 (narcotic effects)	H336 : May cause drowsiness or dizziness
Aspiration toxicity, Category 1	H304 : May be fatal if swallowed and enters airways
Hazardous to the aquatic environment, chronic toxicity, Category 2	H411 : Toxic to aquatic life with long lasting effects

**2.2. Label elements**

Labelling (SWA)

Symbols :

Signal word : Danger

Hazard statement : Highly flammable liquid and vapour  
 Causes skin irritation  
 May cause drowsiness or dizziness  
 May be fatal if swallowed and enters airways

(H225)  
 (H315)  
 (H336)  
 (H304)

## Toxic to aquatic life with long lasting effects

(H411)

## Precautionary statement

## 【Prevention】

Keep out of reach of children. (P102)

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. (P210)

Take precautionary measures against static discharge. (P243)

Avoid breathing vapours. (P261)

Wash hands thoroughly after handling. (P264)

Use only outdoors or in a well-ventilated area. (P271)

Avoid release to the environment. (P273)

Wear protective gloves and eye protection. (P280)

## 【Response】

In case of fire : Use dry chemical powder, foam or carbon dioxide to extinguish. (P370+P378)

IF SWALLOWED : Immediately call a POISON CENTER or physician. (P301+P310)

IF ON SKIN : Wash with plenty of water and soap. (P302+P352)

IF ON SKIN (or hair) : Take off immediately all contaminated clothing. Rinse skin with water. (P303+P361+P353)

IF INHALED : Remove person to fresh air and keep comfortable for breathing. (P304+P340)

Call a POISON CENTER or physician if you feel unwell. (P312)

Do NOT induce vomiting. (P331)

If skin irritation occurs : Get medical advice and attention. (P332+P313)

Collect spillage. (P391)

## 【Storage】

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

## 【Disposal】

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

## 2.3. Other hazards

No information available.

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

Ingredients :

Chemical Name / Generic name	Composition weight %	CAS Registry No.	Hazard Class (category)	Hazard statement
Isoparaffinic Hydrocarbon	40 ~ 50	Confidential	Flam. Liq. 2 Skin Irrit. 2 STOT. SE. 3 Asp. Tox. 1 Aquatic Chronic 2	H225 H315 H336 H304 H411
Synthetic resin	25 ~ 35	Confidential	none	none
Titanium dioxide	15 ~ 25	13463-67-7	none	none
Organic pigment	1 ~ 10	Confidential	none	none
total	100			

**SECTION 4: First-aid measures**

## 4.1. Description of first aid measures

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

**SECTION 5: Firefighting-measures**

### 5.1. Extinguishing media

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

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

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

### 5.3. Advice for firefighters

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

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

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

### 6.2. Environmental precautions

- Do not throw the leakage thing directly into environment

### 6.3. Methods and material for containment and cleaning up

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

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

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

### 7.2. Conditions for safe storage, including any incompatibilities

- Requirements for storage : 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)

Titanium dioxide	TWA	10 mg/m <sup>3</sup>
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EH40/2005 Workplace exposure limits (Fourth Edition, published 2020)

Titanium dioxide	TWA	10 mg/m <sup>3</sup>
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ACGIH (2019)

Titanium dioxide	TWA	10 mg/m <sup>3</sup>
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Material manufacturer data (reference value)

Isoparaffinic Hydrocarbon	RCP-TWA	241 ppm
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### 8.2. Exposure controls

Personal protective equipment

- Respiratory Protection : Use with local exhaust ventilation, when in long use.  
 Avoid breathing vapours. Wear mask to prevent organic gas, if necessary.  
 Hand Protection : Avoid contact with hands. Wear safety gloves, if necessary.  
 Eye Protection : Avoid contact with eyes. Wear safety glasses, if necessary.  
 Skin Protection : Avoid skin contact. Wear personal protection apron, boots, if necessary.

Environmental exposure controls

- General advice : Prevent product from entering drains.  
 Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform respective authorities.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Appearance</b>	: Purple liquid
<b>Odour</b>	: Minor solvent odour
<b>pH</b>	: Not applicable
<b>Boiling point</b>	: 90 °C
<b>Flash point</b>	: 11 °C (closed cup)
<b>Relative Density (at 25°C)</b>	: 0.9 ~ 1.1 (g/cm <sup>3</sup> )
<b>Solubility in Water</b>	: Insoluble

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2. Chemical stability

Thermally stable at typical use temperatures.

### 10.3. Possibility of hazardous reactions

No data available

### 10.4. Conditions to Avoid

High temperature, Direct sunlight, Fire

### 10.5. Incompatible Materials

No data available

### 10.6. Hazardous decomposition products

CO, CO<sub>2</sub>

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

<b>Acute toxicity</b>	: LD/LC50 values that are relevant for classification [Isoparaffinic Hydrocarbon]
Oral-rat	LD50 >5,000 mg/kg
Dermal-rabbit	LD50 >2,000 mg/kg
Inhalation-rat	LC50 >20 mg/L/4h
<b>Skin irritation</b>	: Category 2 Causes skin irritation
<b>Specific target organ toxicity ; single exposure</b>	: Category 3 May cause drowsiness or dizziness
<b>Aspiration hazard</b>	: Category 1 May be fatal if swallowed and enters airways
<b>Carcinogenicity</b>	: 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

<b>12.1. Toxicity</b>	: Category 2 Toxic to aquatic life with long lasting effects
<b>12.2. Persistence and degradability</b>	: No data available
<b>12.3. Bioaccumulative potential</b>	: No data available
<b>12.4. Mobility in soil</b>	: No data available
<b>12.5. Results of PBT and vPvB assessment</b>	: No data available
<b>12.6. Other adverse effects</b>	: 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

<b>14.1. UN number</b>	ADG, IMDG, IATA	: UN1210
<b>14.2. UN proper shipping name</b>	ADG, IMDG, IATA	: PRINTING INK, flammable
<b>14.3. Transport hazard class(es)</b>	ADG, IMDG, IATA	: · Class 3 (Flammable liquids) · Label 3
<b>14.4. Packing group</b>	ADG, IMDG, IATA	: II
<b>14.5. Environmental hazards</b>	Marine pollutant	: No
<b>14.6. Special precautions for user</b>	EMS Number	: F-E,S-D
<b>14.7. HAZCHEM Code</b>		: 3YE (ADG7)

**SECTION 15: Regulatory information**

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

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

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

**15.2. Chemical safety assessment**

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

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

Model Code of Practice	Preparation of Safety Data Sheets for Hazardous Chemicals Labelling of Workplace Hazardous Chemicals
GHS	Globally Harmonised System of Classification and Labelling of Chemicals
Safe Work Australia HSIS	<a href="http://hsis.safeworkaustralia.gov.au/HazardousSubstance">http://hsis.safeworkaustralia.gov.au/HazardousSubstance</a>
WES	Workplace Exposure Standards for Airborne Contaminants (2019)
ADG Code	Australian Code for the Transport of Dangerous Goods by Road & Rail Edition 7.6, 2018



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

EU RoHS (Directive 2011/65/EU)

EU ELV (DIRECTIVE 2000/53/EC)

# Safety Data Sheet

according to Safe Work Australia document

"Model Code of Practice : Preparation of safety data sheets for hazardous chemicals"

Issued Date : 25 December 2013

Revised Date : 13 December, 2023

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

**1.1. Product identifier**

Product Name : Artline 400XF,409XF,440XF,444XF Paint Marker Colour : (Red)  
 EK-400N, EK-409N, EK-440N, EK-444N



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

Recommended use : Paint marker ink



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

Supplier Company Name : ACCO Brands Australia Pty Ltd  
 Address : 2 Coronation Avenue, Kings Park, 2148 NSW, Australia  
 Phone : 02 9674 0900 (9am to 5pm AEST, Monday to Friday)  
 Contact (e-mail) : [sds.anz@acco.com](mailto:sds.anz@acco.com)  
 Website : [www.accobrands.com.au](http://www.accobrands.com.au)

Manufacturer Company Name : Shachihata Inc.  
 Address : 4-69,Amazuka-cho,Nishi-ku,Nagoya City,451-0021,Japan  
 Phone : +81-52-521-3600  
 Fax : +81-52-521-3899  
 Contact : <https://www.artlineworld.com/contact/>



**1.4. Emergency telephone number**

Poisons Information Centre : 13 11 26

**SECTION 2: Hazards identification**

Hazardous Substance , Dangerous Goods.

Classified as hazardous according to the criteria of Safe Work Australia (SWA - formerly NOHSC), and as Dangerous Goods according to the Australian Dangerous Goods (ADG) Code for Transport by Road and Rail.

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

**2.1.1. Classification (SWA)**

Flammable liquids, Category 2	H225 : Highly flammable liquid and vapour
Skin irritation, Category 2	H315 : Causes skin irritation
Specific target organ toxicity : single exposure, Category 3 (narcotic effects)	H336 : May cause drowsiness or dizziness
Aspiration toxicity, Category 1	H304 : May be fatal if swallowed and enters airways
Hazardous to the aquatic environment, chronic toxicity, Category 2	H411 : Toxic to aquatic life with long lasting effects

**2.2. Label elements**

Labelling (SWA)

Symbols :



Signal word : Danger

Hazard statement : Highly flammable liquid and vapour  
 Causes skin irritation  
 May cause drowsiness or dizziness  
 May be fatal if swallowed and enters airways

(H225)  
 (H315)  
 (H336)  
 (H304)

## Toxic to aquatic life with long lasting effects

(H411)

## Precautionary statement

## 【Prevention】

Keep out of reach of children. (P102)

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. (P210)

Take precautionary measures against static discharge. (P243)

Avoid breathing vapours. (P261)

Wash hands thoroughly after handling. (P264)

Use only outdoors or in a well-ventilated area. (P271)

Avoid release to the environment. (P273)

Wear protective gloves and eye protection. (P280)

## 【Response】

In case of fire : Use dry chemical powder, foam or carbon dioxide to extinguish. (P370+P378)

IF SWALLOWED : Immediately call a POISON CENTER or physician. (P301+P310)

IF ON SKIN : Wash with plenty of water and soap. (P302+P352)

IF ON SKIN (or hair) : Take off immediately all contaminated clothing. Rinse skin with water. (P303+P361+P353)

IF INHALED : Remove person to fresh air and keep comfortable for breathing. (P304+P340)

Call a POISON CENTER or physician if you feel unwell. (P312)

Do NOT induce vomiting. (P331)

If skin irritation occurs : Get medical advice and attention. (P332+P313)

Collect spillage. (P391)

## 【Storage】

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

## 【Disposal】

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

## 2.3. Other hazards

No information available.

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

Ingredients :

Chemical Name / Generic name	Composition weight %	CAS Registry No.	Hazard Class (category)	Hazard statement
Isoparaffinic Hydrocarbon	45 ~ 55	Confidential	Flam. Liq. 2 Skin Irrit. 2 STOT. SE. 3 Asp. Tox. 1 Aquatic Chronic 2	H225 H315 H336 H304 H411
Synthetic resin	30 ~ 40	Confidential	none	none
Titanium dioxide	5 ~ 15	13463-67-7	none	none
Organic pigment	1 ~ 10	Confidential	none	none
total	100			

**SECTION 4: First-aid measures**

## 4.1. Description of first aid measures

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

**SECTION 5: Firefighting-measures**

### 5.1. Extinguishing media

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

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

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

### 5.3. Advice for firefighters

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

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

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

### 6.2. Environmental precautions

- Do not throw the leakage thing directly into environment

### 6.3. Methods and material for containment and cleaning up

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

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

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

### 7.2. Conditions for safe storage, including any incompatibilities

- Requirements for storage : 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)  
 Titanium dioxide TWA 10 mg/m<sup>3</sup>  
 EH40/2005 Workplace exposure limits (Fourth Edition, published 2020)  
 Titanium dioxide TWA 10 mg/m<sup>3</sup>  
 ACGIH (2019)  
 Titanium dioxide TWA 10 mg/m<sup>3</sup>  
 Material manufacturer data (reference value)  
 Isoparaffinic Hydrocarbon RCP-TWA 241 ppm

### 8.2. Exposure controls

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

If the product contaminates rivers and lakes or drains inform respective authorities.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Appearance</b>	: Red liquid
<b>Odour</b>	: Minor solvent odour
<b>pH</b>	: Not applicable
<b>Boiling point</b>	: 90 °C
<b>Flash point</b>	: 11 °C (closed cup)
<b>Relative Density (at 25°C)</b>	: 0.8 ~ 1.0 (g/cm <sup>3</sup> )
<b>Solubility in Water</b>	: Insoluble

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2. Chemical stability

Thermally stable at typical use temperatures.

### 10.3. Possibility of hazardous reactions

No data available

### 10.4. Conditions to Avoid

High temperature, Direct sunlight, Fire

### 10.5. Incompatible Materials

No data available

### 10.6. Hazardous decomposition products

CO, CO<sub>2</sub>

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

<b>Acute toxicity</b>	: LD/LC50 values that are relevant for classification [Isoparaffinic Hydrocarbon]
	Oral-rat                      LD50                      >5,000 mg/kg
	Dermal-rabbit              LD50                      >2,000 mg/kg
	Inhalation-rat              LC50                      >20 mg/L/4h
<b>Skin irritation</b>	: Category 2    Causes skin irritation
<b>Specific target organ toxicity ; single exposure</b>	: Category 3    May cause drowsiness or dizziness
<b>Aspiration hazard</b>	: Category 1    May be fatal if swallowed and enters airways
<b>Carcinogenicity</b>	: 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

<b>12.1. Toxicity</b>	: Category 2    Toxic to aquatic life with long lasting effects
<b>12.2. Persistence and degradability</b>	: No data available
<b>12.3. Bioaccumulative potential</b>	: No data available
<b>12.4. Mobility in soil</b>	: No data available
<b>12.5. Results of PBT and vPvB assessment</b>	: No data available
<b>12.6. Other adverse effects</b>	: No data available

## SECTION 13: Disposal considerations

**13.1. Waste treatment methods**

Disposal must be made according to official regulations.  
 Comply with all Federal, State, and Local regulations regarding disposal.  
**Do not allow product to reach ground, any water course or sewage system.**

**SECTION 14: Transport information**

Determination of whether a Dangerous Good based on ADG Code criteria.  
 UN Numbers listed as “UN” followed by 4 digits.  
 Dangerous Good Classes and Labels for all Dangerous Goods.  
 Special Provisions listed.  
 Road – ADG – Australian Dangerous Goods Code (Road and Rail)  
 Air – IATA – International Air Transport Association  
 Sea – IMDG – International Maritime Dangerous Goods

- 14.1. UN number** ADG, IMDG, IATA : UN1210
- 14.2. UN proper shipping name** ADG, IMDG, IATA : PRINTING INK, flammable
- 14.3. Transport hazard class(es)** ADG, IMDG, IATA :
  - Class 3 (Flammable liquids)
  - Label 3
- 14.4. Packing group** ADG, IMDG, IATA : II
- 14.5. Environmental hazards** Marine pollutant : No
- 14.6. Special precautions for user** EMS Number : F-E,S-D
- 14.7. HAZCHEM Code** : 3YE (ADG7)



**SECTION 15: Regulatory information**

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

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

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

**15.2. Chemical safety assessment**

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

**SECTION 16: Other information**

**References**

Model Code of Practice	Preparation of Safety Data Sheets for Hazardous Chemicals Labelling of Workplace Hazardous Chemicals
GHS	Globally Harmonised System of Classification and Labelling of Chemicals
Safe Work Australia HSIS	<a href="http://hsis.safeworkaustralia.gov.au/HazardousSubstance">http://hsis.safeworkaustralia.gov.au/HazardousSubstance</a>
WES	Workplace Exposure Standards for Airborne Contaminants (2019)
ADG Code	Australian Code for the Transport of Dangerous Goods by Road & Rail Edition 7.6, 2018



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

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

# Safety Data Sheet

according to Safe Work Australia document

"Model Code of Practice : Preparation of safety data sheets for hazardous chemicals"

Issued Date : 25 December 2013

Revised Date : 13 December, 2023

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

**1.1. Product identifier**

Product Name : Artline 400XF,409XF,440XF,444XF Paint Marker Colour : (White)  
 EK-400N, EK-409N, EK-440N, EK-444N



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

Recommended use : Paint marker ink



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

Supplier Company Name : ACCO Brands Australia Pty Ltd  
 Address : 2 Coronation Avenue, Kings Park, 2148 NSW, Australia  
 Phone : 02 9674 0900 (9am to 5pm AEST, Monday to Friday)  
 Contact (e-mail) : [sds.anz@acco.com](mailto:sds.anz@acco.com)  
 Website : [www.accobrands.com.au](http://www.accobrands.com.au)



Manufacturer Company Name : Shachihata Inc.  
 Address : 4-69,Amazuka-cho,Nishi-ku,Nagoya City,451-0021,Japan  
 Phone : +81-52-521-3600  
 Fax : +81-52-521-3899  
 Contact : <https://www.artlineworld.com/contact/>



**1.4. Emergency telephone number**

Poisons Information Centre : 13 11 26

**SECTION 2: Hazards identification**

Hazardous Substance , Dangerous Goods.

Classified as hazardous according to the criteria of Safe Work Australia (SWA - formerly NOHSC), and as Dangerous Goods according to the Australian Dangerous Goods (ADG) Code for Transport by Road and Rail.

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

**2.1.1. Classification (SWA)**

Flammable liquids, Category 2	H225 : Highly flammable liquid and vapour
Skin irritation, Category 2	H315 : Causes skin irritation
Specific target organ toxicity ; single exposure, Category 3 (narcotic effects)	H336 : May cause drowsiness or dizziness
Aspiration toxicity, Category 1	H304 : May be fatal if swallowed and enters airways
Hazardous to the aquatic environment, chronic toxicity, Category 2	H411 : Toxic to aquatic life with long lasting effects

**2.2. Label elements**

Labelling (SWA)

Symbols :    

Signal word : Danger

Hazard statement	: Highly flammable liquid and vapour	(H225)
	: Causes skin irritation	(H315)
	: May cause drowsiness or dizziness	(H336)
	: May be fatal if swallowed and enters airways	(H304)

## Toxic to aquatic life with long lasting effects

(H411)

## Precautionary statement

## 【Prevention】

Keep out of reach of children. (P102)

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. (P210)

Take precautionary measures against static discharge. (P243)

Avoid breathing vapours. (P261)

Wash hands thoroughly after handling. (P264)

Use only outdoors or in a well-ventilated area. (P271)

Avoid release to the environment. (P273)

Wear protective gloves and eye protection. (P280)

## 【Response】

In case of fire : Use dry chemical powder, foam or carbon dioxide to extinguish. (P370+P378)

IF SWALLOWED : Immediately call a POISON CENTER or physician. (P301+P310)

IF ON SKIN : Wash with plenty of water and soap. (P302+P352)

IF ON SKIN (or hair) : Take off immediately all contaminated clothing. Rinse skin with water. (P303+P361+P353)

IF INHALED : Remove person to fresh air and keep comfortable for breathing. (P304+P340)

Call a POISON CENTER or physician if you feel unwell. (P312)

Do NOT induce vomiting. (P331)

If skin irritation occurs : Get medical advice and attention. (P332+P313)

Collect spillage. (P391)

## 【Storage】

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

## 【Disposal】

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

## 2.3. Other hazards

No information available.

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

Ingredients :

Chemical Name / Generic name	Composition weight %	CAS Registry No.	Hazard Class (category)	Hazard statement
Methylcyclohexane	25 ~ 35	108-87-2	Flam. Liq. 2 Skin Irrit. 2 STOT. SE. 3 Asp. Tox. 1 Aquatic Chronic 2	H225 H315 H336 H304 H411
Isoparaffinic Hydrocarbon	5 ~ 15	Confidential	Flam. Liq. 3 Asp. Tox. 1 Aquatic Chronic 2	H226 H304 H411
Synthetic resin	15 ~ 25	Confidential	none	none
Titanium dioxide	30 ~ 40	13463-67-7	none	none
Additive	1 ~ 10	Confidential	none	none
total	100			

**SECTION 4: First-aid measures**

## 4.1. Description of first aid measures

- IF INHALED** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Consult a doctor if symptoms persist.
- IF ON SKIN** : Remove / Take off immediately all contaminated clothing. Wash with soap and water. If skin irritation/rash occurs or feel unwell, consult a doctor for medical advice.
- IF IN EYES** : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.
- IF SWALLOWED** : After rinse mouth immediately, give about 250 ml of water or milk and thin in the stomach,



and do not vomit forcibly. Moreover, do not give anything from the mouth to the patient when not conscious. Receive the doctor's treatment (stomach pump) promptly.

**SECTION 5: Firefighting-measures**

**5.1. Extinguishing media**

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

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

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

**5.3. Advice for firefighters**

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

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

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

**6.2. Environmental precautions**

Do not throw the leakage thing directly into environment

**6.3. Methods and material for containment and cleaning up**

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

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

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

**7.2. Conditions for safe storage, including any incompatibilities**

Requirements for storage : 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)		
Methylcyclohexane	TWA	400 ppm
Titanium dioxide	TWA	10 mg/m <sup>3</sup>
EH40/2005 Workplace exposure limits (Fourth Edition, published 2020)		
Titanium dioxide	TWA	10 mg/m <sup>3</sup>
ACGIH (2019)		
Methylcyclohexane	TWA	400 ppm
Titanium dioxide	TWA	10 mg/m <sup>3</sup>

**8.2. Exposure controls**

Personal protective equipment

Respiratory Protection : Use with local exhaust ventilation, when in long use.  
 Avoid breathing vapours. Wear mask to prevent organic gas, if necessary.

Hand Protection : Avoid contact with hands. Wear safety gloves, if necessary.

Eye Protection : Avoid contact with eyes. Wear safety glasses, if necessary.

Skin Protection : Avoid skin contact. Wear personal protection apron, boots, if necessary.

Environmental exposure controls

General advice : Prevent product from entering drains.  
 Prevent further leakage or spillage if safe to do so.  
 If the product contaminates rivers and lakes or drains inform respective authorities.

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

**Appearance** : White liquid  
**Odour** : Minor solvent odour  
**pH** : Not applicable  
**Boiling point** : 100 ~ 153 °C  
**Flash point** : -3 °C (closed cup)  
**Relative Density (at 25°C)** : 1.2 ~ 1.4 (g/cm<sup>3</sup>)  
**Solubility in Water** : Insoluble

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

No dangerous reaction known under conditions of normal use.

**10.2. Chemical stability**

Thermally stable at typical use temperatures.

**10.3. Possibility of hazardous reactions**

No data available

**10.4. Conditions to Avoid**

High temperature, Direct sunlight, Fire

**10.5. Incompatible Materials**

No data available

**10.6. Hazardous decomposition products**

CO, CO<sub>2</sub>

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

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

[Methylcyclohexane ]

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

[Isoparaffinic Hydrocarbon]

Oral-rat	LD50	>5,000 mg/kg
Dermal-rabbit	LD50	>5,000 mg/kg

**Skin irritation** : Category 2 Causes skin irritation

**Specific target organ toxicity ; single exposure** : Category 3 May cause drowsiness or dizziness

**Aspiration hazard** : Category 1 May be fatal if swallowed and enters airways

**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** : Category 2 Toxic to aquatic life with long lasting effects

**12.2. Persistence and degradability** : No data available

<b>12.3. Bioaccumulative potential</b>	: No data available
<b>12.4. Mobility in soil</b>	: No data available
<b>12.5. Results of PBT and vPvB assessment</b>	: No data available
<b>12.6. Other adverse effects</b>	: 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

<b>14.1. UN number</b>	ADG, IMDG, IATA	: UN1210
<b>14.2. UN proper shipping name</b>	ADG, IMDG, IATA	: PRINTING INK, flammable
<b>14.3. Transport hazard class(es)</b>	ADG, IMDG, IATA	: · Class 3 (Flammable liquids) · Label 3
<b>14.4. Packing group</b>	ADG, IMDG, IATA	: II
<b>14.5. Environmental hazards</b>	Marine pollutant	: No
<b>14.6. Special precautions for user</b>	EMS Number	: F-E,S-D
<b>14.7. HAZCHEM Code</b>		: 3YE (ADG7)



### SECTION 15: Regulatory information

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

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

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

#### 15.2. Chemical safety assessment

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

### SECTION 16: Other information

#### References

Model Code of Practice	Preparation of Safety Data Sheets for Hazardous Chemicals Labelling of Workplace Hazardous Chemicals
GHS	Globally Harmonised System of Classification and Labelling of Chemicals
Safe Work Australia HSIS	<a href="http://hsis.safeworkaustralia.gov.au/HazardousSubstance">http://hsis.safeworkaustralia.gov.au/HazardousSubstance</a>
WES	Workplace Exposure Standards for Airborne Contaminants (2019)

ADG Code	Australian Code for the Transport of Dangerous Goods by Road & Rail Edition 7.6, 2018
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This data sheet may not be enough when evaluating danger or hazard. The above information, which is created from currently available documents, information and data, may be revised when new findings announced. This document has been written on the assumption that when dealing with a large amount of ink on the business case and emergency. When handling as a normal product, please refer to the notes that is described in the produce or packaging. The information contained herein is not intended to provide any kind of warranty other than information, there is no guarantee for the accuracy of the content.

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

# Safety Data Sheet

according to Safe Work Australia document

"Model Code of Practice : Preparation of safety data sheets for hazardous chemicals"

Issued Date : 25 December 2013

Revised Date : 13 December, 2023

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

**1.1. Product identifier**

Product Name : Artline 400XF,409XF,440XF,444XF Paint Marker Colour : (Yellow)  
 EK-400N, EK-409N, EK-440N, EK-444N



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

Recommended use : Paint marker ink



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

Supplier Company Name : ACCO Brands Australia Pty Ltd  
 Address : 2 Coronation Avenue, Kings Park, 2148 NSW, Australia  
 Phone : 02 9674 0900 (9am to 5pm AEST, Monday to Friday)  
 Contact (e-mail) : [sds.anz@acco.com](mailto:sds.anz@acco.com)  
 Website : [www.accobrands.com.au](http://www.accobrands.com.au)

Manufacturer Company Name : Shachihata Inc.  
 Address : 4-69,Amazuka-cho,Nishi-ku,Nagoya City,451-0021,Japan  
 Phone : +81-52-521-3600  
 Fax : +81-52-521-3899  
 Contact : <https://www.artlineworld.com/contact/>



**1.4. Emergency telephone number**

Poisons Information Centre : 13 11 26

**SECTION 2: Hazards identification**

Hazardous Substance , Dangerous Goods.

Classified as hazardous according to the criteria of Safe Work Australia (SWA - formerly NOHSC), and as Dangerous Goods according to the Australian Dangerous Goods (ADG) Code for Transport by Road and Rail.

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

**2.1.1. Classification (SWA)**

Flammable liquids, Category 2	H225 : Highly flammable liquid and vapour
Skin irritation, Category 2	H315 : Causes skin irritation
Specific target organ toxicity ; single exposure, Category 3 (narcotic effects)	H336 : May cause drowsiness or dizziness
Aspiration toxicity, Category 1	H304 : May be fatal if swallowed and enters airways
Hazardous to the aquatic environment, chronic toxicity, Category 2	H411 : Toxic to aquatic life with long lasting effects

**2.2. Label elements**

Labelling (SWA)

Symbols : 

Signal word : Danger

Hazard statement	: Highly flammable liquid and vapour	(H225)
	: Causes skin irritation	(H315)
	: May cause drowsiness or dizziness	(H336)
	: May be fatal if swallowed and enters airways	(H304)

## Toxic to aquatic life with long lasting effects

(H411)

## Precautionary statement

## 【Prevention】

Keep out of reach of children. (P102)

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. (P210)

Take precautionary measures against static discharge. (P243)

Avoid breathing vapours. (P261)

Wash hands thoroughly after handling. (P264)

Use only outdoors or in a well-ventilated area. (P271)

Avoid release to the environment. (P273)

Wear protective gloves and eye protection. (P280)

## 【Response】

In case of fire : Use dry chemical powder, foam or carbon dioxide to extinguish. (P370+P378)

IF SWALLOWED : Immediately call a POISON CENTER or physician. (P301+P310)

IF ON SKIN : Wash with plenty of water and soap. (P302+P352)

IF ON SKIN (or hair) : Take off immediately all contaminated clothing. Rinse skin with water. (P303+P361+P353)

IF INHALED : Remove person to fresh air and keep comfortable for breathing. (P304+P340)

Call a POISON CENTER or physician if you feel unwell. (P312)

Do NOT induce vomiting. (P331)

If skin irritation occurs : Get medical advice and attention. (P332+P313)

Collect spillage. (P391)

## 【Storage】

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

## 【Disposal】

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

## 2.3. Other hazards

No information available.

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

Ingredients :

Chemical Name / Generic name	Composition weight %	CAS Registry No.	Hazard Class (category)	Hazard statement
Isoparaffinic Hydrocarbon	40 ~ 50	Confidential	Flam. Liq. 2 Skin Irrit. 2 STOT. SE. 3 Asp. Tox. 1 Aquatic Chronic 2	H225 H315 H336 H304 H411
Synthetic resin	25 ~ 35	Confidential	none	none
Titanium dioxide	15 ~ 25	13463-67-7	none	none
Organic pigment	1 ~ 10	Confidential	none	none
total	100			

**SECTION 4: First-aid measures**

## 4.1. Description of first aid measures

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

**SECTION 5: Firefighting-measures**

### 5.1. Extinguishing media

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

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

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

### 5.3. Advice for firefighters

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

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

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

### 6.2. Environmental precautions

Do not throw the leakage thing directly into environment

### 6.3. Methods and material for containment and cleaning up

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

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

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

### 7.2. Conditions for safe storage, including any incompatibilities

- Requirements for storage : 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)		
Titanium dioxide	TWA	10 mg/m <sup>3</sup>
EH40/2005 Workplace exposure limits (Fourth Edition, published 2020)		
Titanium dioxide	TWA	10 mg/m <sup>3</sup>
ACGIH (2019)		
Titanium dioxide	TWA	10 mg/m <sup>3</sup>
Material manufacturer data (reference value)		
Isoparaffinic Hydrocarbon	RCP-TWA	241 ppm

### 8.2. Exposure controls

Personal protective equipment

- Respiratory Protection : Use with local exhaust ventilation, when in long use.  
 Avoid breathing vapours. Wear mask to prevent organic gas, if necessary.  
 Hand Protection : Avoid contact with hands. Wear safety gloves, if necessary.  
 Eye Protection : Avoid contact with eyes. Wear safety glasses, if necessary.  
 Skin Protection : Avoid skin contact. Wear personal protection apron, boots, if necessary.

Environmental exposure controls

- General advice : Prevent product from entering drains.  
 Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform respective authorities.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Appearance</b>	: Yellow liquid
<b>Odour</b>	: Minor solvent odour
<b>pH</b>	: Not applicable
<b>Boiling point</b>	: 90 °C
<b>Flash point</b>	: 11 °C (closed cup)
<b>Relative Density (at 25°C)</b>	: 0.9 ~ 1.1 (g/cm <sup>3</sup> )
<b>Solubility in Water</b>	: Insoluble

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2. Chemical stability

Thermally stable at typical use temperatures.

### 10.3. Possibility of hazardous reactions

No data available

### 10.4. Conditions to Avoid

High temperature, Direct sunlight, Fire

### 10.5. Incompatible Materials

No data available

### 10.6. Hazardous decomposition products

CO, CO<sub>2</sub>

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

<b>Acute toxicity</b>	: LD/LC50 values that are relevant for classification [Isoparaffinic Hydrocarbon]
	Oral-rat                      LD50                      >5,000 mg/kg
	Dermal-rabbit              LD50                      >2,000 mg/kg
	Inhalation-rat              LC50                      >20 mg/L/4h
<b>Skin irritation</b>	: Category 2    Causes skin irritation
<b>Specific target organ toxicity ; single exposure</b>	: Category 3    May cause drowsiness or dizziness
<b>Aspiration hazard</b>	: Category 1    May be fatal if swallowed and enters airways
<b>Carcinogenicity</b>	: 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

<b>12.1. Toxicity</b>	: Category 2    Toxic to aquatic life with long lasting effects
<b>12.2. Persistence and degradability</b>	: No data available
<b>12.3. Bioaccumulative potential</b>	: No data available
<b>12.4. Mobility in soil</b>	: No data available
<b>12.5. Results of PBT and vPvB assessment</b>	: No data available
<b>12.6. Other adverse effects</b>	: 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

<b>14.1. UN number</b>	ADG, IMDG, IATA	: UN1210
<b>14.2. UN proper shipping name</b>	ADG, IMDG, IATA	: PRINTING INK, flammable
<b>14.3. Transport hazard class(es)</b>	ADG, IMDG, IATA	:
		· Class 3 (Flammable liquids)
		· Label 3
<b>14.4. Packing group</b>	ADG, IMDG, IATA	: II
<b>14.5. Environmental hazards</b>	Marine pollutant	: No
<b>14.6. Special precautions for user</b>	EMS Number	: F-E,S-D
<b>14.7. HAZCHEM Code</b>		: 3YE (ADG7)



## SECTION 15: Regulatory information

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

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

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

### 15.2. Chemical safety assessment

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

## SECTION 16: Other information

### References

Model Code of Practice	Preparation of Safety Data Sheets for Hazardous Chemicals Labelling of Workplace Hazardous Chemicals
GHS	Globally Harmonised System of Classification and Labelling of Chemicals
Safe Work Australia HSIS	<a href="http://hsis.safeworkaustralia.gov.au/HazardousSubstance">http://hsis.safeworkaustralia.gov.au/HazardousSubstance</a>
WES	Workplace Exposure Standards for Airborne Contaminants (2019)
ADG Code	Australian Code for the Transport of Dangerous Goods by Road & Rail Edition 7.6, 2018



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

EU RoHS (Directive 2011/65/EU)

EU ELV (DIRECTIVE 2000/53/EC)

# Safety Data Sheet

according to Safe Work Australia document

"Model Code of Practice : Preparation of safety data sheets for hazardous chemicals"

Issued Date : 25 December 2013

Revised Date : 13 December, 2023

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

**1.1. Product identifier**

Product Name : Artline 400XF Paint Marker



EK-400N Colour : (Yellow green)

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

Recommended use : Paint marker ink

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

Supplier Company Name : ACCO Brands Australia Pty Ltd  
 Address : 2 Coronation Avenue, Kings Park, 2148 NSW, Australia  
 Phone : 02 9674 0900 (9am to 5pm AEST, Monday to Friday)  
 Contact (e-mail) : [sds.anz@acco.com](mailto:sds.anz@acco.com)  
 Website : [www.accobrand.com.au](http://www.accobrand.com.au)

Manufacturer Company Name : Shachihata Inc.  
 Address : 4-69,Amazuka-cho,Nishi-ku,Nagoya City,451-0021,Japan  
 Phone : +81-52-521-3600  
 Fax : +81-52-521-3899  
 Contact : <https://www.artlineworld.com/contact/>

**1.4. Emergency telephone number**

Poisons Information Centre : 13 11 26

**SECTION 2: Hazards identification**

Hazardous Substance , Dangerous Goods.

Classified as hazardous according to the criteria of Safe Work Australia (SWA - formerly NOHSC), and as Dangerous Goods according to the Australian Dangerous Goods (ADG) Code for Transport by Road and Rail.

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

**2.1.1. Classification (SWA)**

Flammable liquids, Category 2	H225 : Highly flammable liquid and vapour
Skin irritation, Category 2	H315 : Causes skin irritation
Specific target organ toxicity ; single exposure, Category 3 (narcotic effects)	H336 : May cause drowsiness or dizziness
Aspiration toxicity, Category 1	H304 : May be fatal if swallowed and enters airways
Hazardous to the aquatic environment, chronic toxicity, Category 2	H411 : Toxic to aquatic life with long lasting effects

**2.2. Label elements**

Labelling (SWA)

Symbols :

Signal word : Danger

Hazard statement : Highly flammable liquid and vapour  
 Causes skin irritation  
 May cause drowsiness or dizziness  
 May be fatal if swallowed and enters airways

(H225)  
(H315)  
(H336)  
(H304)

## Toxic to aquatic life with long lasting effects

(H411)

## Precautionary statement

## 【Prevention】

Keep out of reach of children. (P102)

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. (P210)

Take precautionary measures against static discharge. (P243)

Avoid breathing vapours. (P261)

Wash hands thoroughly after handling. (P264)

Use only outdoors or in a well-ventilated area. (P271)

Avoid release to the environment. (P273)

Wear protective gloves and eye protection. (P280)

## 【Response】

In case of fire : Use dry chemical powder, foam or carbon dioxide to extinguish. (P370+P378)

IF SWALLOWED : Immediately call a POISON CENTER or physician. (P301+P310)

IF ON SKIN : Wash with plenty of water and soap. (P302+P352)

IF ON SKIN (or hair) : Take off immediately all contaminated clothing. Rinse skin with water. (P303+P361+P353)

IF INHALED : Remove person to fresh air and keep comfortable for breathing. (P304+P340)

Call a POISON CENTER or physician if you feel unwell. (P312)

Do NOT induce vomiting. (P331)

If skin irritation occurs : Get medical advice and attention. (P332+P313)

Collect spillage. (P391)

## 【Storage】

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

## 【Disposal】

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

## 2.3. Other hazards

No information available.

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

Ingredients :

Chemical Name / Generic name	Composition weight %	CAS Registry No.	Hazard Class (category)	Hazard statement
Isoparaffinic Hydrocarbon	40 ~ 50	Confidential	Flam. Liq. 2 Skin Irrit. 2 STOT. SE. 3 Asp. Tox. 1 Aquatic Chronic 2	H225 H315 H336 H304 H411
Synthetic resin	35 ~ 45	Confidential	none	none
Titanium dioxide	5 ~ 15	13463-67-7	none	none
Organic pigment	1 ~ 10	Confidential	none	none
total	100			

**SECTION 4: First-aid measures**

## 4.1. Description of first aid measures

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

**SECTION 5: Firefighting-measures**

### 5.1. Extinguishing media

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

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

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

### 5.3. Advice for firefighters

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

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

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

### 6.2. Environmental precautions

- Do not throw the leakage thing directly into environment

### 6.3. Methods and material for containment and cleaning up

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

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

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

### 7.2. Conditions for safe storage, including any incompatibilities

- Requirements for storage : 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)  
 Titanium dioxide TWA 10 mg/m<sup>3</sup>  
 EH40/2005 Workplace exposure limits (Fourth Edition, published 2020)  
 Titanium dioxide TWA 10 mg/m<sup>3</sup>  
 ACGIH (2019)  
 Titanium dioxide TWA 10 mg/m<sup>3</sup>  
 Material manufacturer data (reference value)  
 Isoparaffinic Hydrocarbon RCP-TWA 241 ppm

### 8.2. Exposure controls

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

If the product contaminates rivers and lakes or drains inform respective authorities.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Appearance</b>	: Yellow green liquid
<b>Odour</b>	: Minor solvent odour
<b>pH</b>	: Not applicable
<b>Boiling point</b>	: 90 °C
<b>Flash point</b>	: 11 °C (closed cup)
<b>Relative Density (at 25°C)</b>	: 0.8 ~ 1.0 (g/cm <sup>3</sup> )
<b>Solubility in Water</b>	: Insoluble

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2. Chemical stability

Thermally stable at typical use temperatures.

### 10.3. Possibility of hazardous reactions

No data available

### 10.4. Conditions to Avoid

High temperature, Direct sunlight, Fire

### 10.5. Incompatible Materials

No data available

### 10.6. Hazardous decomposition products

CO, CO<sub>2</sub>

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

<b>Acute toxicity</b>	: LD/LC50 values that are relevant for classification [Isoparaffinic Hydrocarbon]
Oral-rat	LD50 >5,000 mg/kg
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**Skin irritation** : Category 2 Causes skin irritation

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**Aspiration hazard** : Category 1 May be fatal if swallowed and enters airways

**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.

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<b>12.2. Persistence and degradability</b>	: No data available
<b>12.3. Bioaccumulative potential</b>	: No data available
<b>12.4. Mobility in soil</b>	: No data available
<b>12.5. Results of PBT and vPvB assessment</b>	: No data available
<b>12.6. Other adverse effects</b>	: 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.  
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 Road – ADG – Australian Dangerous Goods Code (Road and Rail)  
 Air – IATA – International Air Transport Association  
 Sea – IMDG – International Maritime Dangerous Goods

- 14.1. UN number** ADG, IMDG, IATA : UN1210
- 14.2. UN proper shipping name** ADG, IMDG, IATA : PRINTING INK, flammable
- 14.3. Transport hazard class(es)** ADG, IMDG, IATA :
  - Class 3 (Flammable liquids)
  - Label 3
- 14.4. Packing group** ADG, IMDG, IATA : II
- 14.5. Environmental hazards** Marine pollutant : No
- 14.6. Special precautions for user** EMS Number : F-E,S-D
- 14.7. HAZCHEM Code** : 3YE (ADG7)



**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**

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**15.2. Chemical safety assessment**

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**SECTION 16: Other information**

**References**

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