

Safety Data Sheet

according to Safe Work Australia document

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

Issued Date : 19th Jul. 2013

Revised Date : 28th Feb. 2019

SECTION 1: Identification ; Chemical product and company identification

1.1. Product identifier

Product Name : Artline 370 FLIPCHART MARKER Colour : (Black)
 EK-370



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

Recommended use : Marker ink



1.3. Details of the supplier of the safety data sheet

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

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

1.4. Emergency telephone number

Poisons Information Centre : 13 11 26

SECTION 2: Hazards identification

Non-Hazardous Substance , Non-Dangerous Goods.

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

2.1. Classification of the substance or mixture

2.1.1. Classification (SWA)

Not classified (ink)

2.2. Label elements

Labelling (SWA)

Symbols : none

Signal word : none

Hazard statement : none

Precautionary statement

【Prevention】

Wash hands thoroughly after handling.

(P264)

【Response】

IF IN EYES : Rinse cautiously with water for several minutes.

(P305+P351+P338)

Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists : Get medical advice and attention.

(P337+P313)

【Storage】

Store in a well-ventilated place. Keep cool.

(P403+P235)

【Disposal】

Dispose of contents and container in accordance with local regulations.

(P501)



2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

Ingredients :

Chemical Name / Generic name	Composition weight %	CAS Registry No.	Hazard Class (category)	Hazard statement
Water	65 ~ 75	7732-18-5	none	none
1,2,3-Propanetriol	15 ~ 25	56-81-5	none	none
Dyestuff	5 ~ 15	Confidential	none	none
total	100			

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

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

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

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

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

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

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

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

6.2. Environmental precautions

- Do not throw the leakage thing directly into environment

6.3. Methods and material for containment and cleaning up

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

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

- Advice on safe handling : Use with adequate ventilation.
- Avoid contact with skin, eyes and clothing.

Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

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

SECTION 8: Exposure controls and personal protection

8.1. Control parameters

Australian exposure standards (2018)
 1,2,3-Propanetriol TWA 10 mg/m³
 EH40/2005 Workplace exposure limits
 1,2,3-Propanetriol TWA 10 mg/m³
 ACGIH (2018) Not listed

8.2. Exposure controls

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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : black liquid
 Odour : none
 pH : 7 ~ 9
 Boiling point : 100 ~ 198 °C
 Flash point : Not applicable (closed cup)
 Relative Density (at 25°C) : 1.0 ~ 1.1 (g/cm³)
 Solubility in Water : soluble

SECTION 10: Stability and reactivity

10.1. Reactivity
 No dangerous reaction known under conditions of normal use.
10.2. Chemical stability
 Thermally stable at typical use temperatures.
10.3. Possibility of hazardous reactions
 No data available
10.4. Conditions to Avoid
 High temperature, Direct sunlight, Fire
10.5. Incompatible Materials
 No data available
10.6. Hazardous decomposition products
 CO, CO₂

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

Acute toxicity : LD/LC50 values that are relevant for classification
[1,2,3-Propanetriol]
Oral-rat LD50 >5,000 mg/kg
Dermal-rabbit LD50 >5,000 mg/kg

Carcinogenicity : This product does not contain any component that is considered a human carcinogen by IARC, ACGIH, EPA, EU or NTP.

SECTION 12: Ecological information

12.1. Toxicity : No data available
12.2. Persistence and degradability : No data available
12.3. Bioaccumulative potential : No data available
12.4. Mobility in soil : No data available
12.5. Results of PBT and vPvB assessment : No data available
12.6. Other adverse effects : No data available

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

Disposal must be made according to official regulations.

Comply with all Federal, State, and Local regulations regarding disposal.

Do not allow product to reach ground, any water course or sewage system.

SECTION 14: Transport information

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

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

Dangerous Good Classes and Labels for all Dangerous Goods.

Special Provisions listed.

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

Air – IATA – International Air Transport Association

Sea – IMDG – International Maritime Dangerous Goods

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

SECTION 15: Regulatory information

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

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

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

15.2. Chemical safety assessment

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

SECTION 16: Other information

References

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



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

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 EK-370



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Manufacturer Company Name : Shachihata Inc.
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1.4. Emergency telephone number

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2.1. Classification of the substance or mixture

2.1.1. Classification (SWA)

Not classified (ink)

2.2. Label elements

Labelling (SWA)

Symbols : none
 Signal word : none
 Hazard statement : none

Precautionary statement

【Prevention】

Wash hands thoroughly after handling.

(P264)

【Response】

IF IN EYES : Rinse cautiously with water for several minutes.

(P305+P351+P338)

Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists : Get medical advice and attention.

(P337+P313)

【Storage】

Store in a well-ventilated place. Keep cool.

(P403+P235)

【Disposal】

Dispose of contents and container in accordance with local regulations.

(P501)



2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

Ingredients :

Chemical Name / Generic name	Composition weight %	CAS Registry No.	Hazard Class (category)	Hazard statement
Water	70 ~ 80	7732-18-5	none	none
1,2,3-Propanetriol	15 ~ 25	56-81-5	none	none
Dyestuff	1 ~ 10	Confidential	none	none
total	100			

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

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

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

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

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

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

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

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

6.2. Environmental precautions

- Do not throw the leakage thing directly into environment

6.3. Methods and material for containment and cleaning up

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

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

- Advice on safe handling : Use with adequate ventilation.
- Avoid contact with skin, eyes and clothing.

Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

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

SECTION 8: Exposure controls and personal protection

8.1. Control parameters

Australian exposure standards (2018)
 1,2,3-Propanetriol TWA 10 mg/m³
 EH40/2005 Workplace exposure limits
 1,2,3-Propanetriol TWA 10 mg/m³
 ACGIH (2018) Not listed

8.2. Exposure controls

Personal protective equipment

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

Environmental exposure controls

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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : blue liquid
 Odour : none
 pH : 7 ~ 9
 Boiling point : 100 ~ 198 °C
 Flash point : Not applicable (closed cup)
 Relative Density (at 25°C) : 1.0 ~ 1.1 (g/cm³)
 Solubility in Water : soluble

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

Thermally stable at typical use temperatures.

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to Avoid

High temperature, Direct sunlight, Fire

10.5. Incompatible Materials

No data available

10.6. Hazardous decomposition products

CO, CO₂

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

Acute toxicity : LD/LC50 values that are relevant for classification
[1,2,3-Propanetriol]
Oral-rat LD50 >5,000 mg/kg
Dermal-rabbit LD50 >5,000 mg/kg

Carcinogenicity : This product does not contain any component that is considered a human carcinogen by IARC, ACGIH, EPA, EU or NTP.

SECTION 12: Ecological information

12.1. Toxicity : No data available
12.2. Persistence and degradability : No data available
12.3. Bioaccumulative potential : No data available
12.4. Mobility in soil : No data available
12.5. Results of PBT and vPvB assessment : No data available
12.6. Other adverse effects : No data available

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

Disposal must be made according to official regulations.

Comply with all Federal, State, and Local regulations regarding disposal.

Do not allow product to reach ground, any water course or sewage system.

SECTION 14: Transport information

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

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

Dangerous Good Classes and Labels for all Dangerous Goods.

Special Provisions listed.

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

Air – IATA – International Air Transport Association

Sea – IMDG – International Maritime Dangerous Goods

14.1. UN number ADG, IMDG, IATA : none
14.2. UN proper shipping name ADG, IMDG, IATA : none
14.3. Transport hazard class(es) ADG, IMDG, IATA : none
14.4. Packing group ADG, IMDG, IATA : none
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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

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1.1. Product identifier

Product Name : Artline 370 FLIPCHART MARKER Colour : (Green)
 EK-370



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

Recommended use : Marker ink



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2.2. Label elements

Labelling (SWA)

Symbols : none
 Signal word : none
 Hazard statement : none



Precautionary statement

【Prevention】

Wash hands thoroughly after handling. (P264)

【Response】

IF IN EYES : Rinse cautiously with water for several minutes. (P305+P351+P338)

Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists : Get medical advice and attention. (P337+P313)

【Storage】

Store in a well-ventilated place. Keep cool. (P403+P235)

【Disposal】

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

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

Ingredients :

Chemical Name / Generic name	Composition weight %	CAS Registry No.	Hazard Class (category)	Hazard statement
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10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to Avoid

High temperature, Direct sunlight, Fire

10.5. Incompatible Materials

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10.6. Hazardous decomposition products

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Dermal-rabbit LD50 >5,000 mg/kg

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

SECTION 15: Regulatory information

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

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

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

15.2. Chemical safety assessment

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

SECTION 16: Other information

References

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GHS	Globally Harmonised System of Classification and Labelling of Chemicals (GHS)
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WES	Workplace Exposure Standards for Airborne Contaminants (2018)
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EU RoHS Directive(2011/65/EC)
ELV Directive(2000/53/EC)

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Safety Data Sheet

according to Safe Work Australia document

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

Issued Date : 19th Jul. 2013

Revised Date : 28th Feb. 2019

SECTION 1: Identification ; Chemical product and company identification

1.1. Product identifier

Product Name : Artline 370 FLIPCHART MARKER Colour : (Red)
 EK-370



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

Recommended use : Marker ink



1.3. Details of the supplier of the safety data sheet

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

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

1.4. Emergency telephone number

Poisons Information Centre : 13 11 26

SECTION 2: Hazards identification

Non-Hazardous Substance , Non-Dangerous Goods.

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

2.1. Classification of the substance or mixture

2.1.1. Classification (SWA)

Not classified (ink)

2.2. Label elements

Labelling (SWA)

Symbols : none
 Signal word : none
 Hazard statement : none

Precautionary statement

【Prevention】

Wash hands thoroughly after handling.

(P264)

【Response】

IF IN EYES : Rinse cautiously with water for several minutes.

(P305+P351+P338)

Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists : Get medical advice and attention.

(P337+P313)

【Storage】

Store in a well-ventilated place. Keep cool.

(P403+P235)

【Disposal】

Dispose of contents and container in accordance with local regulations.

(P501)



2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

Ingredients :

Chemical Name / Generic name	Composition weight %	CAS Registry No.	Hazard Class (category)	Hazard statement
Water	65 ~ 75	7732-18-5	none	none
1,2,3-Propanetriol	15 ~ 25	56-81-5	none	none
Dyestuff	5 ~ 15	Confidential	none	none
total	100			

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

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

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

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

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

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

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

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

6.2. Environmental precautions

- Do not throw the leakage thing directly into environment

6.3. Methods and material for containment and cleaning up

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

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

- Advice on safe handling : Use with adequate ventilation.
- Avoid contact with skin, eyes and clothing.

Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

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

SECTION 8: Exposure controls and personal protection

8.1. Control parameters

Australian exposure standards (2018)
 1,2,3-Propanetriol TWA 10 mg/m³
 EH40/2005 Workplace exposure limits
 1,2,3-Propanetriol TWA 10 mg/m³
 ACGIH (2018) Not listed

8.2. Exposure controls

Personal protective equipment

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

Environmental exposure controls

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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : red liquid
 Odour : none
 pH : 7 ~ 9
 Boiling point : 100 ~ 198 °C
 Flash point : Not applicable (closed cup)
 Relative Density (at 25°C) : 1.0 ~ 1.1 (g/cm³)
 Solubility in Water : soluble

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

Thermally stable at typical use temperatures.

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to Avoid

High temperature, Direct sunlight, Fire

10.5. Incompatible Materials

No data available

10.6. Hazardous decomposition products

CO, CO₂

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

Acute toxicity : LD/LC50 values that are relevant for classification
[1,2,3-Propanetriol]
Oral-rat LD50 >5,000 mg/kg
Dermal-rabbit LD50 >5,000 mg/kg

Carcinogenicity : This product does not contain any component that is considered a human carcinogen by IARC, ACGIH, EPA, EU or NTP.

SECTION 12: Ecological information

12.1. Toxicity : No data available
12.2. Persistence and degradability : No data available
12.3. Bioaccumulative potential : No data available
12.4. Mobility in soil : No data available
12.5. Results of PBT and vPvB assessment : No data available
12.6. Other adverse effects : No data available

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

Disposal must be made according to official regulations.

Comply with all Federal, State, and Local regulations regarding disposal.

Do not allow product to reach ground, any water course or sewage system.

SECTION 14: Transport information

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

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

Dangerous Good Classes and Labels for all Dangerous Goods.

Special Provisions listed.

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

Air – IATA – International Air Transport Association

Sea – IMDG – International Maritime Dangerous Goods

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