

Safety data sheet for chemical products

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: UM-120AC White [uni-ball Signo Angelic Color]

JAPAN

Manufacture's name : MITSUBISHI PENCIL CO.,LTD.
 Address : 5-23-37, HIGASHIOHI, SHINAGAWA, TOKYO, JAPAN
 Telephone number : 03-3458-6281 Telefax number : 03-3450-0363

AUSTRALIA

Australian importer : Mitsubishi Pencil Australia
 ABN : 31 085 515 671
 Address : 674 Lorimar Street, Port Melbourne VIC 3207
 Telephone Number : 03 9646 5630
 Emergency Telephone Number: 03 9646 5630
 (Monday to Friday 9:00am - 5.00pm, general information only)

Creation Date : July 2, 2014
 Revision Date :
 File No. : 067438A_Aus Rev. 3.6.02.01

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

No hazardous product as specified in Directive 67/548/EEC or 1999/45/EC

Label elements : -

Other hazards : Not available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The chemical product is a substance or a preparation : Mixture

Chemical nature: Component parts : Ink

Chemical or generic name	CAS No.	TSCA	EINECSNo.	Concentration range (wt%)
Water	7732-18-5	Registered	2317912	30- 50
Additives	Registered	Registered	Polymer Registered	30- 50
Titanium dioxide	13463-67-7	Registered	2366755	10- 30
Ethylene glycol	107-21-1	Registered	2034733	< 10

Other parts : Other parts are excluded from 'chemical substances'.

4. FIRST-AID MEASURES

Inhalation:

Not applicable.

(Due to its low vapor pressure. Inhalation is unlikely at room temperature.)

Skin contact:

Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.

Eye contact:

Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

Ingestion:

If swallowed, seek medical advice, and show the MSDS to the physician then.

[Ink quantity of product : about 1.1g]

5. FIRE-FIGHTING MEASURES

Fire and explosion measures : Slight fire hazard.

Extinguishing media:

Suitable : regular dry chemical, carbon dioxide, water, regular foam.

Large fires : Use regular foam or flood with fine water spray.

Fire fighting

: The Products is no flammable.

Use extinguishing agents appropriate for surrounding fire.

Avoid inhalation of material or combustion by-products.

Stay upwind and keep out of low areas.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Not available.

Environmental precautions : Do not wash away into shower or water way.

Methods for cleaning up : Wipe off by dry cloth and wash with water.

: In accordance with national, state and local regulations.

7. HANDLING AND STORAGE

Store and handle in accordance with all current regulations and standards.

Keep separated from incompatible substances.

Handling:

Technical measures : Don't swallow ink.

: Recap after use.

: Don't shake.

: Keep out of the reach of infants.

: Avoid contact with skin and eyes.

Precautions : Not available.

Safe handling advice : Not available.

Storage:

Technical measures : Keep away from oxidizing materials, ignition sources and high temperature.

Storage condition : Avoid direct sunlight.

: Do not leave the products in high temperature space.

: Recommended temperature: 0-30 C.

Incompatible products : Not available.

Packaging materials : Not applicable.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures : Not required.

Control parameters (Information of components.)

OSHA	15mg/m ³ (Total dust)	Titanium dioxide
ACGIH	10mg/m ³ TWA 100mg/m ³ ceiling (particulate)(aerosol)	Titanium dioxide Ethylene glycol
EC	6mg/m ³ 52mg/m ³ (20ppm) TWA(skin), 104mg/m ³ (40ppm) STEL(skin)	Titanium dioxide Ethylene glycol

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

[] : Information of components.

Physical state and form	: Liquid.
Color	: White.
Odor	: None odor.
pH	: about 8.7
Boiling point	: Not available. [Water/ 100 C]
Melting point	: <-10 C
Flash point	: Not applicable. [Ethylene glycol/ 111 C(CC)]
Autoignition temperature	: Not applicable.
Explosion limits	: Not applicable. [Lower flammable limit / 3.2% , Upper flammable limit / 15.3% <Ethylene glycol>]
Density	: about 1.2 / 25 C
Vapor density (air=1)	: Not available. [Ethylene glycol/ 2.1]
Solubility in water	: Soluble.
Evaporation rate	: Not available.
Volatile	: 54-57%

10. STABILITY AND REACTIVITY

Stability	: Stability.
Hazardous reactions	: Will not occur.
Conditions to avoid	: Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.
Materials to avoid	: Not available.
Hazardous decomposition products	: Not available.

11. TOXICOLOGICAL INFORMATION

(Information of components)

Acute toxicity

Ingestion LD50	>24000mg/kg-Rat 1650mg/kg-Cat, 4700mg/kg-Rat	Titanium dioxide Ethylene glycol
Inhalation LC50	6820mg/m ³ -4H-Rat	Titanium dioxide
Skin LD50	>16mL/kg-Rat 9530uL/kg-Rabbit	Coloring agent Ethylene glycol

Local effects dehydration Additive
 Irritant:inhalation, skin, eye Ethylene glycol

Chronic toxicity and long term toxicity
 The substance may have effects on the central nervous system, resulting in abnormal eye movements (nystagmus). Ethylene glycol

Signs and Symptoms of overexposure and aggravated by exposure

Inhalation	irritation,cough	Titanium dioxide / Ethylene glycol
Skin contact	sensitization irritation,dry	Additive Ethylene glycol
Eye contact	irritation,redness	Titanium dioxide / Ethylene glycol
Ingestion	physiologically inert, intestinal obstruction nausea,vomiting	Titanium dioxide Ethylene glycol

Specific effects IARC Group 2B Titanium dioxide

12. ECOLOGICAL INFORMATION

Not available.

13. DISPOSAL CONSIDERATIONS

Waste from residues : Disposal in accordance with all current regulations and standards.
 Contaminated packaging : Not applicable.

14. TRANSPORT INFORMATION

HS Code : 960810

15. REGULATORY INFORMATION

Regulations (Information of components)
 Hazardous chemicals (OSHA HCS) : Ethylene glycol
 EU labeling : Not restricted.
 CANADA Hazardous Products Act - Ingredient Disclosure List
 1%over : Ethylene glycol

Hazard and safety information

Products are manufactured in accordance with ISO 8124-3 " Safety of Toys - Part 3"

16. OTHER INFORMATION

This sheet completes the technical sheet of use but it doesn't replace it.
 The information contained in this sheet are based knowledge of the products at the data : (July 2, 2014). They are given quite sincerely.
 Moreover the attention of the users is drawn on the risks possibly taken, when a product is used for other utilization than these which it is intended.

Safety data sheet for chemical products

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: UM-120AC Yellow [uni-ball Signo Angelic Color]

JAPAN

Manufacture's name : MITSUBISHI PENCIL CO.,LTD.
 Address : 5-23-37, HIGASHIOHI, SHINAGAWA, TOKYO, JAPAN
 Telephone number : 03-3458-6281 Telefax number : 03-3450-0363

AUSTRALIA

Australian importer : Mitsubishi Pencil Australia
 ABN : 31 085 515 671
 Address : 674 Lorimar Street, Port Melbourne VIC 3207
 Telephone Number : 03 9646 5630
 Emergency Telephone Number: 03 9646 5630
 (Monday to Friday 9:00am - 5:00pm, general information only)

Creation Date : July 2, 2014
 Revision Date :
 File No. : 067439A_Aus Rev. 3.6.02.01

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

No hazardous product as specified in Directive 67/548/EEC or 1999/45/EC

Label elements : -

Other hazards : Not available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The chemical product is a substance or a preparation : Mixture

Chemical nature: Component parts : Ink

Chemical or generic name	CAS No.	TSCA	EINECSNo.	Concentration range (wt%)
Water	7732-18-5	Registered	2317912	30- 50
Additives	Registered	Registered	Polymer Registered	30- 50
Titanium dioxide	13463-67-7	Registered	2366755	10- 30
Triethanolamine	102-71-6	Registered	2030498	< 10
Coloring agent	Registered	Registered	Registered	< 1

Other parts : Other parts are excluded from 'chemical substances'.

4. FIRST-AID MEASURES

Inhalation:

Not applicable.(Due to its low vapor pressure. Inhalation is unlikely at room temperature.)

Skin contact:

Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.

Eye contact:

Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

Ingestion:

If swallowed, seek medical advice, and show the MSDS to the physician then.

[Ink quantity of product : about 1.1g]

5. FIRE-FIGHTING MEASURES

Fire and explosion measures : Slight fire hazard.

Extinguishing media:

Suitable : regular dry chemical, carbon dioxide, water, regular foam.

Large fires : Use regular foam or flood with fine water spray.

Fire fighting

: The Products is no flammable.

Use extinguishing agents appropriate for surrounding fire.

Avoid inhalation of material or combustion by-products.

Stay upwind and keep out of low areas.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Not available.

Environmental precautions : Do not wash away into shower or water way.

Methods for cleaning up : Wipe off by dry cloth and wash with water.

: In accordance with national, state and local regulations.

7. HANDLING AND STORAGE

Store and handle in accordance with all current regulations and standards.

Keep separated from incompatible substances.

Handling:

Technical measures : Don't swallow ink.

: Recap after use.

: Don't shake.

: Keep out of the reach of infants.

: Avoid contact with skin and eyes.

Precautions : Not available.

Safe handling advice : Not available.

Storage:

Technical measures : Keep away from oxidizing materials, ignition sources and high temperature.

Storage condition : Avoid direct sunlight.

: Do not leave the products in high temperature space.

: Recommended temperature: 0-30 C.

Incompatible products : Not available.

Packaging materials : Not applicable.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures : Not required.

Control parameters (Information of components.)

OSHA	15mg/m ³ (Total dust)	Titanium dioxide
ACGIH	10mg/m ³ TWA	Titanium dioxide
	5mg/m ³ TWA	Triethanolamine
EC	6mg/m ³	Titanium dioxide

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

[]: Information of components.

Physical state and form	: Liquid.
Color	: Yellow.
Odor	: None odor.
pH	: about 8.7
Boiling point	: Not available. [Water/ 100 C]
Melting point	: <-10 C
Flash point	: Not applicable.
Autoignition temperature	: Not applicable. [Triethanolamine/ 315.5 C]
Explosion limits	: Not applicable.
Density	: about 1.2 / 25 C
Vapor density (air=1)	: Not available.
Solubility in water	: Soluble.
Evaporation rate	: Not available.
Volatile	: 53-56%

10. STABILITY AND REACTIVITY

Stability	: Stability.
Hazardous reactions	: Will not occur.
Conditions to avoid	: Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.
Materials to avoid	: Not available.
Hazardous decomposition products	: Not available.

11. TOXICOLOGICAL INFORMATION

(Information of components)

Acute toxicity		
Ingestion LD50	>5000mg/kg-Rat >24000mg/kg-Rat 2200mg/kg-Rabbit, 5846mg/kg-Mouse 1650mg/kg-Cat, 4700mg/kg-Rat	Coloring agent Titanium dioxide Triethanolamine Coloring agent
Inhalation LC50	6820mg/m ³ 4H-Rat	Titanium dioxide
Skin LD50	>16mL/kg-Rat	Triethanolamine
Local effects	dehydration Irritant:skin, eye	Additive Triethanolamine

Chronic toxicity and long term toxicity

Repeated or prolonged contact may cause skin sensitization. Triethanolamine

Signs and Symptoms of overexposure and aggravated by exposure

Inhalation	irritation,cough sore throat,difficulty breathing irritation	Titanium dioxide Triethanolamine Coloring agent
Skin contact	sensitization irritation,redness	Additive Triethanolamine
Eye contact	irritation,redness irritation,corneal swelling	Titanium dioxide Triethanolamine
Ingestion	physiologically inert, intestinal obstruction burns,gastrointestinal irritation vomiting, diarrhea	Titanium dioxide Triethanolamine Coloring agent
Specific effects	IARC Group 2B IARC Group 3	Titanium dioxide Triethanolamine

12. ECOLOGICAL INFORMATION

Not available.

13. DISPOSAL CONSIDERATIONS

Waste from residues : Disposal in accordance with all current regulations and standards.
Contaminated packaging : Not applicable.

14. TRANSPORT INFORMATION

HS Code : 960810

15. REGULATORY INFORMATION

Regulations (Information of components)

Hazardous chemicals (OSHA HCS) : Triethanolamine

EU labeling : Not restricted.

CANADA Hazardous Products Act - Ingredient Disclosure List
1%over : Triethanolamine

Hazard and safety information

Products are manufactured in accordance with ISO 8124-3 " Safety of Toys - Part 3"

16. OTHER INFORMATION

This sheet completes the technical sheet of use but it doesn't replace it.
The information contained in this sheet are based knowledge of the products at the data : (July 2, 2014). They are given quite sincerely.
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Safety data sheet for chemical products

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: UM-120AC Orange [uni-ball Signo Angelic Color]

JAPAN

Manufacture's name : MITSUBISHI PENCIL CO.,LTD.
 Address : 5-23-37, HIGASHIOHI, SHINAGAWA, TOKYO, JAPAN
 Telephone number : 03-3458-6281 Telefax number : 03-3450-0363

AUSTRALIA

Australian importer : Mitsubishi Pencil Australia
 ABN : 31 085 515 671
 Address : 674 Lorimar Street, Port Melbourne VIC 3207
 Telephone Number : 03 9646 5630
 Emergency Telephone Number: 03 9646 5630
 (Monday to Friday 9:00am - 5:00pm, general information only)

Creation Date : July 2, 2014
 Revision Date :
 File No. : 067440A_Aus Rev. 3.6.02.01

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

No hazardous product as specified in Directive 67/548/EEC or 1999/45/EC

Label elements : -

Other hazards : Not available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The chemical product is a substance or a preparation : Mixture

Chemical nature: Component parts : Ink

Chemical or generic name	CAS No.	TSCA	EINECSNo.	Concentration range (wt%)
Water	7732-18-5	Registered	2317912	30- 50
Additives	Registered	Registered	Polymer Registered	30- 50
Titanium dioxide	13463-67-7	Registered	2366755	10- 30
Ethylene glycol	107-21-1	Registered	2034733	< 10
Coloring agent	Registered	Registered	Registered	< 1

Other parts : Other parts are excluded from 'chemical substances'.

4. FIRST-AID MEASURES

Inhalation:

Not applicable.

(Due to its low vapor pressure. Inhalation is unlikely at room temperature.)

Skin contact:

Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.

Eye contact:

Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

Ingestion:

If swallowed, seek medical advice, and show the MSDS to the physician then.

[Ink quantity of product : about 1.1g]

5. FIRE-FIGHTING MEASURES

Fire and explosion measures : Slight fire hazard.

Extinguishing media:

Suitable : regular dry chemical, carbon dioxide, water, regular foam.

Large fires : Use regular foam or flood with fine water spray.

Fire fighting : The Products is no flammable.

Use extinguishing agents appropriate for surrounding fire.

Avoid inhalation of material or combustion by-products.

Stay upwind and keep out of low areas.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Not available.

Environmental precautions : Do not wash away into shower or water way.

Methods for cleaning up : Wipe off by dry cloth and wash with water.

: In accordance with national, state and local regulations.

7. HANDLING AND STORAGE

Store and handle in accordance with all current regulations and standards.

Keep separated from incompatible substances.

Handling:

Technical measures : Don't swallow ink.

: Recap after use.

: Don't shake.

: Keep out of the reach of infants.

: Avoid contact with skin and eyes.

Precautions : Not available.

Safe handling advice : Not available.

Storage:

Technical measures : Keep away from oxidizing materials, ignition sources and high temperature.

Storage condition : Avoid direct sunlight.

: Do not leave the products in high temperature space.

: Recommended temperature: 0-30 C.

Incompatible products : Not available.

Packaging materials : Not applicable.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures : Not required.

Control parameters (Information of components.)

OSHA	15mg/m ³ (Total dust)	Titanium dioxide
	15mg/m ³ PEL (Nuisance Dust)	Coloring agent
ACGIH	10mg/m ³ TWA	Titanium dioxide
	100mg/m ³ ceiling (particulate)(aerosol)	Ethylene glycol
	10mg/m ³ (Nuisance particulate)	Coloring agent
EC	6mg/m ³	Titanium dioxide
	52mg/m ³ (20ppm) TWA,	Ethylene glycol
	104mg/m ³ (40ppm) STEL(skin)	

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

[] : Information of components.

Physical state and form	: Liquid.
Color	: Orange.
Odor	: None odor.
pH	: about 8.7
Boiling point	: Not available. [Water/ 100 C]
Melting point	: <-10 C
Flash point	: Not applicable. [Ethylene glycol/ 111 C(CC)]
Autoignition temperature	: Not applicable.
Explosion limits	: Not applicable. [Lower flammable limit / 3.2% , Upper flammable limit / 15.3% <Ethylene glycol>]
Density	: about 1.2 / 25 C
Vapor density (air=1)	: Not available. [Ethylene glycol/ 2.1]
Solubility in water	: Soluble.
Evaporation rate	: Not available.
Volatile	: 53-56%

10. STABILITY AND REACTIVITY

Stability	: Stability.
Hazardous reactions	: Will not occur.
Conditions to avoid	: Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.
Materials to avoid	: Not available.
Hazardous decomposition products	: Not available.

11. TOXICOLOGICAL INFORMATION

(Information of components)

Acute toxicity

Ingestion LD50	>5000mg/kg·Rat	Coloring agent
	>24000mg/kg·Rat	Titanium dioxide
	1650mg/kg·Cat,	Ethylene glycol
	4700mg/kg·Rat	
Inhalation LC50	6820mg/m ³ -4H·Rat	Titanium dioxide
Skin LD50	9530uL/kg·Rabbit	Ethylene glycol

Local effects	dehydration Irritant:inhalation, skin, eye	Additive Ethylene glycol
Chronic toxicity and long term toxicity	The substance may have effects on the central nervous system, resulting in abnormal eye movements (nystagmus).	Ethylene glycol
Signs and Symptoms of overexposure and aggravated by exposure		
Inhalation	irritation,cough irritation	Titanium dioxide / Ethylene glycol Coloring agent
Skin contact	sensitization irritation,dry allergic contact dermatitis	Additive Ethylene glycol Coloring agent
Eye contact	irritation,redness	Titanium dioxide / Ethylene glycol
Ingestion	physiologically inert, intestinal obstruction nausea,vomiting	Titanium dioxide Ethylene glycol / Coloring agent
Specific effects	IARC Group 2B	Titanium dioxide

12. ECOLOGICAL INFORMATION

Not available.

13. DISPOSAL CONSIDERATIONS

Waste from residues : Disposal in accordance with all current regulations and standards.
Contaminated packaging : Not applicable.

14. TRANSPORT INFORMATION

HS Code : 960810

15. REGULATORY INFORMATION

Regulations (Information of components)

Hazardous chemicals (OSHA HCS) : Ethylene glycol

EU labeling : Not restricted.

CANADA Hazardous Products Act - Ingredient Disclosure List
1%over : Ethylene glycol

Hazard and safety information

Products are manufactured in accordance with ISO 8124-3 " Safety of Toys - Part 3"

16. OTHER INFORMATION

This sheet completes the technical sheet of use but it doesn't replace it.
The information contained in this sheet are based knowledge of the products at the data : (July 2, 2014). They are given quite sincerely.
Moreover the attention of the users is drawn on the risks possibly taken, when a product is used for other utilization than these which it is intended.

Safety data sheet for chemical products

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: UM-120AC Green [uni-ball Signo Angelic Color]

JAPAN

Manufacture's name : MITSUBISHI PENCIL CO.,LTD.
 Address : 5-23-37, HIGASHIOHI, SHINAGAWA, TOKYO, JAPAN
 Telephone number : 03-3458-6281 Telefax number : 03-3450-0363

AUSTRALIA

Australian importer : Mitsubishi Pencil Australia
 ABN : 31 085 515 671
 Address : 674 Lorimar Street, Port Melbourne VIC 3207
 Telephone Number : 03 9646 5630
 Emergency Telephone Number: 03 9646 5630
 (Monday to Friday 9:00am - 5.00pm, general information only)

Creation Date : July 2, 2014
 Revision Date :
 File No. : 067441A_Aus Rev. 3.6.03.01

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

No hazardous product as specified in Directive 67/548/EEC or 1999/45/EC

Label elements : -

Other hazards : Not available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The chemical product is a substance or a mixture : Mixture

Chemical nature: Component parts : Ink

Chemical or generic name	CAS No.	TSCA	EINECSNo.	Concentration range (wt%)
Water	7732-18-5	Registered	2317912	30- 50
Additives	Registered	Registered	Polymer Registered	30- 50
Titanium dioxide	13463-67-7	Registered	2366755	10- 30
Coloring agent	Registered	Registered	Registered	< 10
Ethylene glycol	107-21-1	Registered	2034733	< 10

Other parts : Other parts are excluded from 'chemical substances'.

4. FIRST-AID MEASURES

Inhalation:

Not applicable.

(Due to its low vapor pressure. Inhalation is unlikely at room temperature.)

Skin contact:

Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.

Eye contact:

Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

Ingestion:

If swallowed, seek medical advice, and show the MSDS to the physician then.

[Ink quantity of product : about 1.1g]

5. FIRE-FIGHTING MEASURES

Fire and explosion measures : Slight fire hazard.

Extinguishing media:

Suitable : regular dry chemical, carbon dioxide, water, regular foam.

Large fires : Use regular foam or flood with fine water spray.

Fire fighting

: The Products is no flammable.

Use extinguishing agents appropriate for surrounding fire.

Avoid inhalation of material or combustion by-products.

Stay upwind and keep out of low areas.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Not available.

Environmental precautions : Do not wash away into shower or water way.

Methods for cleaning up : Wipe off by dry cloth and wash with water.

: In accordance with national, state and local regulations.

7. HANDLING AND STORAGE

Store and handle in accordance with all current regulations and standards.

Keep separated from incompatible substances.

Handling:

Technical measures : Don't swallow ink.

: Recap after use.

: Don't shake.

: Keep out of the reach of infants.

: Avoid contact with skin and eyes.

Precautions : Not available.

Safe handling advice : Not available.

Storage:

Technical measures : Keep away from oxidizing materials, ignition sources and high temperature.

Storage condition : Avoid direct sunlight.

: Do not leave the products in high temperature space.

: Recommended temperature: 0-30 C.

Incompatible products : Not available.

Packaging materials : Not applicable.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures : Not required.

Control parameters (Information of components.)

OSHA	15mg/m ³ (Total dust)	Titanium dioxide
	15mg/m ³ PEL (Nuisance Dust)	Coloring agent
ACGIH	10mg/m ³ TWA	Titanium dioxide
	10mg/m ³ (Nuisance particulate)	Coloring agent
	100mg/m ³ ceiling (particulate)(aerosol)	Ethylene glycol
EC	6mg/m ³	Titanium dioxide
	52mg/m ³ (20ppm) TWA,	Ethylene glycol
	104mg/m ³ (40ppm) STEL(skin)	

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

[] : Information of components.

Physical state and form	: Liquid.
Color	: Green.
Odor	: None odor.
pH	: about 8.7
Boiling point	: Not available. [Water/ 100 C]
Melting point	: <-10 C
Flash point	: Not applicable. [Ethylene glycol/ 111 C(CC)]
Autoignition temperature	: Not applicable.
Explosion limits	: Not applicable.
	[Lower flammable limit / 3.2% , Upper flammable limit / 15.3% <Ethylene glycol>]
Density	: about 1.2 / 25 C
Vapor density (air=1)	: Not available. [Ethylene glycol/ 2.1]
Solubility in water	: Soluble.
Evaporation rate	: Not available.
Volatile	: 51-54%

10. STABILITY AND REACTIVITY

Stability	: Stability.
Hazardous reactions	: Will not occur.
Conditions to avoid	: Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.
Materials to avoid	: Not available.
Hazardous decomposition products	: Not available.

11. TOXICOLOGICAL INFORMATION

(Information of components)

Acute toxicity

Ingestion LD50	>24000mg/kg-Rat >=5000mg/kg-Rat 1650mg/kg-Cat, 4700mg/kg-Rat	Coloring agent Coloring agent Ethylene glycol
Inhalation LC50	6820mg/m ³ -4H-Rat	Titanium dioxide
Skin LD50	9530uL/kg-Rabbit	Ethylene glycol

Local effects

dehydration
Irritant:inhalation, skin, eye
Additive
Ethylene glycol

Chronic toxicity and long term toxicity

The substance may have effects on the central nervous system, resulting in abnormal eye movements (nystagmus).
Ethylene glycol

Signs and Symptoms of overexposure and aggravated by exposure

Inhalation	irritation,cough irritation	Titanium dioxide / Ethylene glycol Coloring agent
Skin contact	irritation sensitization irritation,dry	Coloring agent Additive Ethylene glycol
Eye contact	irritation irritation,redness	Coloring agent Titanium dioxide / Ethylene glycol
Ingestion	physiologically inert, intestinal obstruction gastric disturbances nausea,vomiting	Titanium dioxide Coloring agent Ethylene glycol
Specific effects	IARC Group 2B	Titanium dioxide

12. ECOLOGICAL INFORMATION

Not available.

13. DISPOSAL CONSIDERATIONS

Waste from residues : Disposal in accordance with all current regulations and standards.
Contaminated packaging : Not applicable.

14. TRANSPORT INFORMATION

HS Code : 960810

15. REGULATORY INFORMATION

Regulations (Information of components)

Hazardous chemicals (OSHA HCS) : Ethylene glycol

EU labeling : Not restricted.

CANADA Hazardous Products Act · Ingredient Disclosure List

1%over : Ethylene glycol

Hazard and safety information

Products are manufactured in accordance with ISO 8124-3 " Safety of Toys - Part 3"

16. OTHER INFORMATION

This sheet completes the technical sheet of use but it doesn't replace it.

The information contained in this sheet are based knowledge of the products at the data : (July 2, 2014). They are given quite sincerely.

Moreover the attention of the users is drawn on the risks possibly taken, when a product is used for other utilization than these which it is intended.

Safety data sheet for chemical products

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: UM-120AC Violet [uni-ball Signo Angelic Color]

JAPAN

Manufacture's name : MITSUBISHI PENCIL CO.,LTD.
 Address : 5-23-37, HIGASHIOHI, SHINAGAWA, TOKYO, JAPAN
 Telephone number : 03-3458-6281 Telefax number : 03-3450-0363

AUSTRALIA

Australian importer : Mitsubishi Pencil Australia
 ABN : 31 085 515 671
 Address : 674 Lorimar Street, Port Melbourne VIC 3207
 Telephone Number : 03 9646 5630
 Emergency Telephone Number: 03 9646 5630
 (Monday to Friday 9:00am - 5.00pm, general information only)

Creation Date : July 2, 2014
 Revision Date :
 File No. : 067442A_Aus Rev. 3.6.02.01

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

No hazardous product as specified in Directive 67/548/EEC or 1999/45/EC

Label elements : -

Other hazards : Not available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The chemical product is a substance or a mixture : Mixture

Chemical nature: Component parts : Ink

Chemical or generic name	CAS No.	TSCA	EINECSNo.	Concentration range (wt%)
Water	7732-18-5	Registered	2317912	30- 50
Additives	Registered	Registered	Polymer Registered	30- 50
Titanium dioxide	13463-67-7	Registered	2366755	10- 30
Ethylene glycol	107-21-1	Registered	2034733	< 10
Coloring agent	Registered	Registered	Registered	< 1

Other parts : Other parts are excluded from 'chemical substances'.

4. FIRST-AID MEASURES

Inhalation:

Not applicable.

(Due to its low vapor pressure. Inhalation is unlikely at room temperature.)

Skin contact:

Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.

Eye contact:

Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

Ingestion:

If swallowed, seek medical advice, and show the MSDS to the physician then.

[Ink quantity of product : about 1.1g]

5. FIRE-FIGHTING MEASURES

Fire and explosion measures : Slight fire hazard.

Extinguishing media:

Suitable : regular dry chemical, carbon dioxide, water, regular foam.

Large fires : Use regular foam or flood with fine water spray.

Fire fighting

: The Products is no flammable.

Use extinguishing agents appropriate for surrounding fire.

Avoid inhalation of material or combustion by-products.

Stay upwind and keep out of low areas.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Not available.

Environmental precautions : Do not wash away into shower or water way.

Methods for cleaning up : Wipe off by dry cloth and wash with water.

: In accordance with national, state and local regulations.

7. HANDLING AND STORAGE

Store and handle in accordance with all current regulations and standards.

Keep separated from incompatible substances.

Handling:

Technical measures : Don't swallow ink.

: Recap after use.

: Don't shake.

: Keep out of the reach of infants.

: Avoid contact with skin and eyes.

Precautions : Not available.

Safe handling advice : Not available.

Storage:

Technical measures : Keep away from oxidizing materials, ignition sources and high temperature.

Storage condition : Avoid direct sunlight.

: Do not leave the products in high temperature space.

: Recommended temperature: 0-30 C.

Incompatible products : Not available.

Packaging materials : Not applicable.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures : Not required.

Control parameters (Information of components.)

OSHA	15mg/m ³ (Total dust)	Titanium dioxide
ACGIH	10mg/m ³ TWA 100mg/m ³ ceiling (particulate)(aerosol)	Titanium dioxide Ethylene glycol
EC	6mg/m ³ 52mg/m ³ (20ppm) TWA, 104mg/m ³ (40ppm) STEL(skin)	Titanium dioxide Ethylene glycol

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

[] : Information of components.

Physical state and form	: Liquid.
Color	: Violet.
Odor	: None odor.
pH	: about 8.7
Boiling point	: Not available. [Water/ 100 C]
Melting point	: <-10 C
Flash point	: Not applicable. [Ethylene glycol/ 111 C(CC)]
Autoignition temperature	: Not applicable.
Explosion limits	: Not applicable. [Lower flammable limit / 3.2% , Upper flammable limit / 15.3% <Ethylene glycol>]
Density	: about 1.2 / 25 C
Vapor density (air=1)	: Not available. [Ethylene glycol/ 2.1]
Solubility in water	: Soluble.
Evaporation rate	: Not available.
Volatile	: 53-56%

10. STABILITY AND REACTIVITY

Stability	: Stability.
Hazardous reactions	: Will not occur.
Conditions to avoid	: Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.
Materials to avoid	: Not available.
Hazardous decomposition products	: Not available.

11. TOXICOLOGICAL INFORMATION

(Information of components)

Acute toxicity

Ingestion LD50	>24000mg/kg-Rat 1650mg/kg-Cat, 4700mg/kg-Rat >=5000mg/kg-Rat	Titanium dioxide Coloring agent Coloring agent
Inhalation LC50	6820mg/m ³ -4H-Rat	Titanium dioxide
Skin LD50	9530uL/kg-Rabbit	Ethylene glycol

Local effects	dehydration Irritant:inhalation, skin, eye	Additive Ethylene glycol
Chronic toxicity and long term toxicity	The substance may have effects on the central nervous system, resulting in abnormal eye movements (nystagmus).	Ethylene glycol
Signs and Symptoms of overexposure and aggravated by exposure		
Inhalation	irritation,cough irritation	Titanium dioxide / Ethylene glycol Coloring agent
Skin contact	sensitization irritation,dry	Additive Ethylene glycol
Eye contact	irritation,redness	Titanium dioxide / Ethylene glycol
Ingestion	physiologically inert, intestinal obstruction nausea,vomiting	Titanium dioxide Ethylene glycol
Specific effects	IARC Group 2B	Titanium dioxide

12. ECOLOGICAL INFORMATION

Not available.

13. DISPOSAL CONSIDERATIONS

Waste from residues : Disposal in accordance with all current regulations and standards.
Contaminated packaging : Not applicable.

14. TRANSPORT INFORMATION

HS Code : 960810

15. REGULATORY INFORMATION

Regulations (Information of components)

Hazardous chemicals (OSHA HCS) : Ethylene glycol

EU labeling : Not restricted.

CANADA Hazardous Products Act - Ingredient Disclosure List
1%over : Ethylene glycol

Hazard and safety information

Products are manufactured in accordance with ISO 8124-3 " Safety of Toys - Part 3"

16. OTHER INFORMATION

This sheet completes the technical sheet of use but it doesn't replace it.
The information contained in this sheet are based knowledge of the products at the data : (July 2, 2014). They are given quite sincerely.
Moreover the attention of the users is drawn on the risks possibly taken, when a product is used for other utilization than these which it is intended.

Safety data sheet for chemical products

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: UM-120AC Pink [uni-ball Signo Angelic Color]

JAPAN

Manufacture's name : MITSUBISHI PENCIL CO.,LTD.
 Address : 5-23-37, HIGASHIOHI, SHINAGAWA, TOKYO, JAPAN
 Telephone number : 03-3458-6281 Telefax number : 03-3450-0363

AUSTRALIA

Australian importer : Mitsubishi Pencil Australia
 ABN : 31 085 515 671
 Address : 674 Lorimar Street, Port Melbourne VIC 3207
 Telephone Number : 03 9646 5630
 Emergency Telephone Number: 03 9646 5630
 (Monday to Friday 9:00am - 5.00pm, general information only)

Creation Date : July 2, 2014
 Revision Date :
 File No. : 067443A_Aus Rev. 3.6.02.01

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture
 No hazardous product as specified in Directive 67/548/EEC or 1999/45/EC

Label elements : -
 Other hazards : Not available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The chemical product is a substance or a mixture : Mixture

Chemical nature: Component parts : Ink

Chemical or generic name	CAS No.	TSCA	EINECSNo.	Concentration range (wt%)
Water	7732-18-5	Registered	2317912	30- 50
Additives	Registered	Registered	Polymer Registered	30- 50
Titanium dioxide	13463-67-7	Registered	2366755	10- 30
Ethylene glycol	107-21-1	Registered	2034733	< 10
Coloring agent	Registered	Registered	Registered	< 1

Other parts : Other parts are excluded from 'chemical substances'.

4. FIRST-AID MEASURES

Inhalation:

Not applicable.

(Due to its low vapor pressure. Inhalation is unlikely at room temperature.)

Skin contact:

Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.

Eye contact:

Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

Ingestion:

If swallowed, seek medical advice, and show the MSDS to the physician then.

[Ink quantity of product : about 1.1g]

5. FIRE-FIGHTING MEASURES

Fire and explosion measures : Slight fire hazard.

Extinguishing media:

Suitable : regular dry chemical, carbon dioxide, water, regular foam.

Large fires : Use regular foam or flood with fine water spray.

Fire fighting

: The Products is no flammable.

Use extinguishing agents appropriate for surrounding fire.

Avoid inhalation of material or combustion by-products.

Stay upwind and keep out of low areas.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Not available.

Environmental precautions : Do not wash away into shower or water way.

Methods for cleaning up : Wipe off by dry cloth and wash with water.

: In accordance with national, state and local regulations.

7. HANDLING AND STORAGE

Store and handle in accordance with all current regulations and standards.

Keep separated from incompatible substances.

Handling:

Technical measures : Don't swallow ink.

: Recap after use.

: Don't shake.

: Keep out of the reach of infants.

: Avoid contact with skin and eyes.

Precautions : Not available.

Safe handling advice : Not available.

Storage:

Technical measures : Keep away from oxidizing materials, ignition sources and high temperature.

Storage condition : Avoid direct sunlight.

: Do not leave the products in high temperature space.

: Recommended temperature: 0-30 C.

Incompatible products : Not available.

Packaging materials : Not applicable.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures : Not required.

Control parameters (Information of components.)

OSHA	15mg/m ³ (Total dust) 5mg/m ³ (Respirable fraction), 15mg/m ³ (Total dust) [Nuisance Dust]	Titanium dioxide Coloring agent
ACGIH	10mg/m ³ TWA 100mg/m ³ ceiling (particulate)(aerosol) 10mg/m ³ (Nuisance particulate)	Titanium dioxide Ethylene glycol Coloring agent
EC	6mg/m ³ 52mg/m ³ (20ppm) TWA, 104mg/m ³ (40ppm) STEL(skin)	Titanium dioxide Ethylene glycol

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

[] : Information of components.

Physical state and form	: Liquid.
Color	: Pink.
Odor	: None odor.
pH	: about 8.7
Boiling point	: Not available. [Water/ 100 C]
Melting point	: <-10 C
Flash point	: Not applicable. [Ethylene glycol/ 111 C(CC)]
Autoignition temperature	: Not applicable.
Explosion limits	: Not applicable. [Lower flammable limit / 3.2% , Upper flammable limit / 15.3% <Ethylene glycol>]
Density	: about 1.2 / 25 C
Vapor density (air=1)	: Not available. [Ethylene glycol/ 2.1]
Solubility in water	: Soluble.
Evaporation rate	: Not available.
Volatile	: 53-56%

10. STABILITY AND REACTIVITY

Stability	: Stability.
Hazardous reactions	: Will not occur.
Conditions to avoid	: Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.
Materials to avoid	: Not available.
Hazardous decomposition products	: Not available.

11. TOXICOLOGICAL INFORMATION

(Information of components)

Acute toxicity

Ingestion LD50	>24000mg/kg-Rat 1650mg/kg-Cat, 4700mg/kg-Rat >=5000mg/kg-Rat	Coloring agent Ethylene glycol
Inhalation LC50	6820mg/m ³ -4H-Rat	Coloring agent Titanium dioxide
Skin LD50	9530uL/kg-Rabbit >3000mg/kg-Rabbit	Ethylene glycol Coloring agent

Local effects

dehydration
Irritant:inhalation, skin, eye
Additive
Ethylene glycol

Chronic toxicity and long term toxicity

The substance may have effects on the central nervous system, resulting in abnormal eye movements (nystagmus).
Ethylene glycol

Signs and Symptoms of overexposure and aggravated by exposure

Inhalation	irritation,cough	Titanium dioxide / Ethylene glycol
Skin contact	sensitization irritation,dry	Additive Ethylene glycol
Eye contact	irritation,redness	Titanium dioxide / Ethylene glycol
Ingestion	physiologically inert, intestinal obstruction nausea,vomiting	Titanium dioxide Ethylene glycol
Specific effects	IARC Group 2B	Titanium dioxide

12. ECOLOGICAL INFORMATION

Not available.

13. DISPOSAL CONSIDERATIONS

Waste from residues : Disposal in accordance with all current regulations and standards.

Contaminated packaging : Not applicable.

14. TRANSPORT INFORMATION

HS Code : 960810

15. REGULATORY INFORMATION

Regulations (Information of components)

Hazardous chemicals (OSHA HCS) : Ethylene glycol

EU labeling : Not restricted.

CANADA Hazardous Products Act - Ingredient Disclosure List

1%over : Ethylene glycol

Hazard and safety information

Products are manufactured in accordance with ISO 8124-3 " Safety of Toys - Part 3"

16. OTHER INFORMATION

This sheet completes the technical sheet of use but it doesn't replace it.
The information contained in this sheet are based knowledge of the products
at the data : (July 2, 2014). They are given quite sincerely.
Moreover the attention of the users is drawn on the risks possibly taken,
when a product is used for other utilization than these which it is intended.

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Safety data sheet for chemical products

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: UM-120AC Red [uni-ball Signo Angelic Color]

JAPAN

Manufacture's name : MITSUBISHI PENCIL CO.,LTD.
 Address : 5-23-37, HIGASHIOHI, SHINAGAWA, TOKYO, JAPAN
 Telephone number : 03-3458-6281 Telefax number : 03-3450-0363

AUSTRALIA

Australian importer : Mitsubishi Pencil Australia
 ABN : 31 085 515 671
 Address : 674 Lorimar Street, Port Melbourne VIC 3207
 Telephone Number : 03 9646 5630
 Emergency Telephone Number: 03 9646 5630
 (Monday to Friday 9:00am - 5:00pm, general information only)

Creation Date : July 2, 2014
 Revision Date
 File No. : 067444A_Aus Rev. 3.6.02.01

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

No hazardous product as specified in Directive 67/548/EEC or 1999/45/EC

Label elements : -

Other hazards : Not available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The chemical product is a substance or a mixture : Mixture

Chemical nature: Component parts : Ink

Chemical or generic name	CAS No.	TSCA	EINECSNo.	Concentration range (wt%)
Water	7732-18-5	Registered	2317912	30- 50
Additives	Registered	Registered	Polymer Registered	30- 50
Titanium dioxide	13463-67-7	Registered	2366755	10- 30
Triethanolamine	102-71-6	Registered	2030498	< 10
Coloring agent	Registered	Registered	Registered	< 1

Other parts : Other parts are excluded from 'chemical substances'.

4. FIRST-AID MEASURES

Inhalation:

Not applicable.

(Due to its low vapor pressure. Inhalation is unlikely at room temperature.)

Skin contact:

Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.

Eye contact:

Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

Ingestion:

If swallowed, seek medical advice, and show the MSDS to the physician then.

[Ink quantity of product : about 1.1g]

5. FIRE-FIGHTING MEASURES

Fire and explosion measures : Slight fire hazard.

Extinguishing media:

Suitable : regular dry chemical, carbon dioxide, water, regular foam.

Large fires : Use regular foam or flood with fine water spray.

Fire fighting

: The Products is no flammable.

Use extinguishing agents appropriate for surrounding fire.

Avoid inhalation of material or combustion by-products.

Stay upwind and keep out of low areas.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Not available.

Environmental precautions : Do not wash away into shower or water way.

Methods for cleaning up : Wipe off by dry cloth and wash with water.

: In accordance with national, state and local regulations.

7. HANDLING AND STORAGE

Store and handle in accordance with all current regulations and standards.

Keep separated from incompatible substances.

Handling:

Technical measures : Don't swallow ink.

: Recap after use.

: Don't shake.

: Keep out of the reach of infants.

: Avoid contact with skin and eyes.

Precautions : Not available.

Safe handling advice : Not available.

Storage:

Technical measures : Keep away from oxidizing materials, ignition sources and high temperature.

Storage condition : Avoid direct sunlight.

: Do not leave the products in high temperature space.

: Recommended temperature: 0-30 C.

Incompatible products : Not available.

Packaging materials : Not applicable.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures : Not required.

Control parameters (Information of components.)

OSHA	15mg/m ³ (Total dust)	Titanium dioxide
ACGIH	10mg/m ³ TWA	Titanium dioxide
	5mg/m ³ TWA	Triethanolamine
EC	6mg/m ³	Titanium dioxide

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

[]: Information of components.

Physical state and form	: Liquid.
Color	: Red.
Odor	: None odor.
pH	: about 8.7
Boiling point	: Not available. [Water/ 100 C]
Melting point	: <-10 C
Flash point	: Not applicable.
Autoignition temperature	: Not applicable. [Triethanolamine/ 315.5 C]
Explosion limits	: Not applicable.
Density	: about 1.2 / 25 C
Vapor density (air=1)	: Not available.
Solubility in water	: Soluble.
Evaporation rate	: Not available.
Volatile	: 53-56%

10. STABILITY AND REACTIVITY

Stability	: Stability.
Hazardous reactions	: Will not occur.
Conditions to avoid	: Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.
Materials to avoid	: Not available.
Hazardous decomposition products	: Not available.

11. TOXICOLOGICAL INFORMATION

(Information of components)

Acute toxicity

Ingestion LD50	>24000mg/kg-Rat 2200mg/kg-Rabbit, 5846mg/kg-Mouse 1650mg/kg-Cat, 4700mg/kg-Rat >=5000mg/kg-Rat	Titanium dioxide Triethanolamine Coloring agent Coloring agent
Inhalation LC50	6820mg/m ³ -4H-Rat	Titanium dioxide
Skin LD50	>16mL/kg-Rat	Triethanolamine

Local effects	dehydration Irritant:skin, eye	Additive Triethanolamine
Chronic toxicity and long term toxicity	Repeated or prolonged contact may cause skin sensitization.	Triethanolamine
Signs and Symptoms of overexposure and aggravated by exposure		
Inhalation	irritation,cough sore throat,difficulty breathing irritation	Titanium dioxide Triethanolamine Coloring agent
Skin contact	sensitization irritation,redness irritation,dry redness,swelling	Additive Triethanolamine Ethylene glycol Coloring agent
Eye contact	irritation,redness irritation,corneal swelling	Titanium dioxide Triethanolamine
Ingestion	physiologically inert, intestinal obstruction burns,gastrointestinal irritation nausea,vomiting	Titanium dioxide Triethanolamine Coloring agent
Specific effects	IARC Group 2B IARC Group 3	Titanium dioxide Triethanolamine

12. ECOLOGICAL INFORMATION

Not available.

13. DISPOSAL CONSIDERATIONS

Waste from residues : Disposal in accordance with all current regulations and standards.
Contaminated packaging : Not applicable.

14. TRANSPORT INFORMATION

HS Code : 960810

15. REGULATORY INFORMATION

Regulations (Information of components)

Hazardous chemicals (OSHA HCS) : Triethanolamine

EU labeling : Not restricted.

CANADA Hazardous Products Act - Ingredient Disclosure List

1%over : Triethanolamine

Hazard and safety information

Products are manufactured in accordance with ISO 8124-3 " Safety of Toys - Part 3"

16. OTHER INFORMATION

This sheet completes the technical sheet of use but it doesn't replace it.
The information contained in this sheet are based knowledge of the products at the data : (July 2, 2014). They are given quite sincerely.
Moreover the attention of the users is drawn on the risks possibly taken, when a product is used for other utilization than these which it is intended.

Safety data sheet for chemical products

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: UM-120AC Blue [uni-ball Signo Angelic Color]

JAPAN

Manufacture's name : MITSUBISHI PENCIL CO.,LTD.
 Address : 5-23-37, HIGASHIOHI, SHINAGAWA, TOKYO, JAPAN
 Telephone number : 03-3458-6281 Telefax number : 03-3450-0363

AUSTRALIA

Australian importer : Mitsubishi Pencil Australia
 ABN : 31 085 515 671
 Address : 674 Lorimar Street, Port Melbourne VIC 3207
 Telephone Number : 03 9646 5630
 Emergency Telephone Number: 03 9646 5630
 (Monday to Friday 9:00am - 5.00pm, general information only)

Creation Date : July 2, 2014
 Revision Date :
 File No. : 067445A_Aus Rev. 3.6.02.01

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

No hazardous product as specified in Directive 67/548/EEC or 1999/45/EC

Label elements : -

Other hazards : Not available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The chemical product is a substance or a mixture : Mixture

Chemical nature: Component parts : Ink

Chemical or generic name	CAS No.	TSCA	EINECSNo.	Concentration range (wt%)
Water	7732-18-5	Registered	2317912	30- 50
Additives	Registered	Registered	Polymer Registered	30- 50
Titanium dioxide	13463-67-7	Registered	2366755	10- 30
Coloring agent	Registered	Registered	Registered	< 10
Ethylene glycol	107-21-1	Registered	2034733	< 10

Other parts : Other parts are excluded from 'chemical substances'.

4. FIRST-AID MEASURES

Inhalation:

Not applicable.

(Due to its low vapor pressure. Inhalation is unlikely at room temperature.)

Skin contact:

Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.

Eye contact:

Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

Ingestion:

If swallowed, seek medical advice, and show the MSDS to the physician then.

[Ink quantity of product : about 1.1g]

5. FIRE-FIGHTING MEASURES

Fire and explosion measures : Slight fire hazard.

Extinguishing media:

- | | |
|---------------|--|
| Suitable | : regular dry chemical, carbon dioxide, water, regular foam. |
| Large fires | : Use regular foam or flood with fine water spray. |
| Fire fighting | : The Products is no flammable.
Use extinguishing agents appropriate for surrounding fire.
Avoid inhalation of material or combustion by-products.
Stay upwind and keep out of low areas. |

6. ACCIDENTAL RELEASE MEASURES

- | | |
|---------------------------|---|
| Personal precautions | : Not available. |
| Environmental precautions | : Do not wash away into shower or water way. |
| Methods for cleaning up | : Wipe off by dry cloth and wash with water.
: In accordance with national, state and local regulations. |

7. HANDLING AND STORAGE

Store and handle in accordance with all current regulations and standards.

Keep separated from incompatible substances.

Handling:

- | | |
|-----------------------|--|
| Technical measures | : Don't swallow ink.
: Recap after use.
: Don't shake.
: Keep out of the reach of infants.
: Avoid contact with skin and eyes. |
| Precautions | : Not available. |
| Safe handling advice | : Not available. |
| Storage: | |
| Technical measures | : Keep away from oxidizing materials, ignition sources and high temperature. |
| Storage condition | : Avoid direct sunlight.
: Do not leave the products in high temperature space.
: Recommended temperature: 0-30 C. |
| Incompatible products | : Not available. |
| Packaging materials | : Not applicable. |

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures : Not required.

Control parameters (Information of components.)

OSHA	15mg/m ³ (Total dust) 5mg/m ³ (Respirable fraction), 15mg/m ³ (Total dust) [Nuisance Dust]	Titanium dioxide Coloring agent
ACGIH	10mg/m ³ TWA 100mg/m ³ ceiling (particulate)(aerosol) 10mg/m ³ (Nuisance particulate)	Titanium dioxide Ethylene glycol Coloring agent
EC	6mg/m ³ 52mg/m ³ (20ppm) TWA, 104mg/m ³ (40ppm) STEL(skin)	Titanium dioxide Ethylene glycol

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

[] : Information of components.

Physical state and form	: Liquid.
Color	: Blue.
Odor	: None odor.
pH	: about 8.7
Boiling point	: Not available. [Water/ 100 C]
Melting point	: <-10 C
Flash point	: Not applicable. [Ethylene glycol/ 111 C(CC)]
Autoignition temperature	: Not applicable.
Explosion limits	: Not applicable. [Lower flammable limit / 3.2% , Upper flammable limit / 15.3% <Ethylene glycol>]
Density	: about 1.2 / 25 C
Vapor density (air=1)	: Not available. [Ethylene glycol/ 2.1]
Solubility in water	: Soluble.
Evaporation rate	: Not available.
Volatile	: 52-55%

10. STABILITY AND REACTIVITY

Stability	: Stability.
Hazardous reactions	: Will not occur.
Conditions to avoid	: Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.
Materials to avoid	: Not available.
Hazardous decomposition products	: Not available.

11. TOXICOLOGICAL INFORMATION

(Information of components)

Acute toxicity

Ingestion LD50	>5000mg/kg-Rat >24000mg/kg-Rat 1650mg/kg-Cat, 4700mg/kg-Rat	Coloring agent Titanium dioxide Ethylene glycol
Inhalation LC50	6820mg/m ³ -4H-Rat	Titanium dioxide
Skin LD50	9530uL/kg-Rabbit	Ethylene glycol

Local effects

dehydration
Irritant:inhalation, skin, eye
Additive
Ethylene glycol

Chronic toxicity and long term toxicity

The substance may have effects on the central nervous system, resulting in abnormal eye movements (nystagmus).
Ethylene glycol

Signs and Symptoms of overexposure and aggravated by exposure

Inhalation	irritation,cough irritation	Titanium dioxide / Ethylene glycol Coloring agent
Skin contact	sensitization irritation,dry	Additive Ethylene glycol
Eye contact	irritation irritation,redness	Coloring agent Titanium dioxide / Ethylene glycol
Ingestion	physiologically inert, intestinal obstruction nausea,vomiting gastric disturbances	Titanium dioxide Ethylene glycol Coloring agent

Specific effects

IARC Group 2B
Titanium dioxide

12. ECOLOGICAL INFORMATION

Not available.

13. DISPOSAL CONSIDERATIONS

Waste from residues : Disposal in accordance with all current regulations and standards.
Contaminated packaging : Not applicable.

14. TRANSPORT INFORMATION

HS Code : 960810

15. REGULATORY INFORMATION

Regulations (Information of components)

Hazardous chemicals (OSHA HCS) : Ethylene glycol

EU labeling : Not restricted.

CANADA Hazardous Products Act - Ingredient Disclosure List

1%over : Ethylene glycol

Hazard and safety information

Products are manufactured in accordance with ISO 8124-3 " Safety of Toys - Part 3"

16. OTHER INFORMATION

This sheet completes the technical sheet of use but it doesn't replace it.

The information contained in this sheet are based knowledge of the products at the data : (July 2, 2014). They are given quite sincerely.

Moreover the attention of the users is drawn on the risks possibly taken, when a product is used for other utilization than these which it is intended.