

Safety data sheet for chemical products

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: UM-120 Black [uni-ball Signo]

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. : 067422A_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	50- 80
Additives	Registered	Registered	Registered Polymer	10- 30
Ethylene glycol	107-21-1	Registered	2034733	< 10
Resin	Registered	Registered	polymer	< 10
Carbon Black	1333-86-4	Registered	2156099	< 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 refill : 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	3.5mg/m ³	Carbon Black
ACGIH	100mg/m ³ ceiling (particulate)(aerosol) 3.5mg/m ³ (total dust) TWA	Ethylene glycol Carbon Black
EC	52mg/m ³ (20ppm) TWA, 104mg/m ³ (40ppm) STEL(skin) 3.5mg/m ³	Ethylene glycol Carbon Black

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

[]: Information of components.

Physical state and form	: Liquid.
Color	: Black.
Odor	: None odor.
pH	: about 8.4
Boiling point	: Not available. [Water/ 100 C]
Melting point	: < -10 C
Flash point	: Not applicable.
Autoignition temperature	: Not applicable.
Explosion limits	: Not applicable.
Density	: about 1.1 / 25 C
Vapor density (air=1)	: Not available.
Solubility in water	: Soluble.
Evaporation rate	: Not available.
Volatile	: 84-87%

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	1650mg/kg·Cat, 4700mg/kg·Rat	Ethylene glycol
Inhalation LC50	Not available.	
Skin LD50	9530uL/kg·Rabbit	Ethylene glycol
Local effects	dehydration Irritant:inhalation, skin	Additive Carbon Black

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	Ethylene glycol Resin / Carbon Black
Skin contact	irritation,dry sensitization irritation	Ethylene glycol Additive Resin / Carbon Black
Eye contact	irritation,redness irritation mechanical irritation, discoloration of lids	Ethylene glycol Resin Carbon Black
Ingestion	nausea,vomiting	Ethylene glycol
Specific effects	IARC Group 2B	Carbon Black

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 / Carbon Black

EU labeling

: Not restricted.

CANADA Hazardous Products Act - Ingredient Disclosure List

1%over

: Ethylene glycol / Carbon Black

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-120 Blue [uni-ball Signo]

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
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Creation Date : July 2, 2014
 Revision Date :
 File No. : 067423A_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	50- 80
Ethylene glycol	107-21-1	Registered	2034733	10- 30
Resin	Registered	Registered	polymer	< 10
Coloring agent	Registered	Registered	Registered	< 10
Additive	Registered	Registered	Registered	< 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 refill : 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	5mg/m ³ (Respirable fraction), 15mg/m ³ (Total dust)[Nuisance Dust]	Coloring agent
ACGIH	100mg/m ³ ceiling (particulate)(aerosol) 10mg/m ³ (Nuisance particulate)	Ethylene glycol Coloring agent
EC	52mg/m ³ (20ppm) TWA, 104mg/m ³ (40ppm) STEL(skin)	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 8.4
Boiling point	: Not available. [Water/ 100 C]
Melting point	: < -10 C
Flash point	: Not applicable.
Autoignition temperature	: Not applicable.
Explosion limits	: Not applicable.
Density	: about 1.1 / 25 C
Vapor density (air=1)	: Not available.
Solubility in water	: Soluble.
Evaporation rate	: Not available.
Volatile	: 85-88%

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	1650mg/kg-Cat, 4700mg/kg-Rat >=5000mg/kg-Rat >5000mg/kg-Rat	Ethylene glycol Resin Coloring agent
Inhalation LC50	Not available.	
Skin LD50	9530uL/kg-Rabbit	Ethylene glycol

Local effects

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 irritation	Ethylene glycol Coloring agent
Skin contact	irritation,dry irritation	Ethylene glycol Resin
Eye contact	irritation,redness irritation	Ethylene glycol Resin / Coloring agent
Ingestion	nausea,vomiting gastric disturbances	Ethylene glycol Coloring agent

Specific effects

Not available.

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-120 Red [uni-ball Signo]

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. : 067424A_Aus Rev. 3.6.01.01

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	50- 80
Ethylene glycol	107-21-1	Registered	2034733	10- 30
Coloring agent	Registered	Registered	Registered	< 10
Resin	Registered	Registered	polymer	< 10
Additive	Registered	Registered	Registered	< 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 refill : 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	Not available.	
ACGIH	100mg/m ³ ceiling (particulate)(aerosol)	Ethylene glycol
EC	52mg/m ³ (20ppm) TWA, 104mg/m ³ (40ppm) STEL(skin)	Ethylene glycol

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 8.4
Boiling point	: Not available. [Water/ 100 C]
Melting point	: < -10 C
Flash point	: Not applicable.
Autoignition temperature	: Not applicable.
Explosion limits	: Not applicable.
Density	: about 1.1 / 25 C
Vapor density (air=1)	: Not applicable.
Solubility in water	: Soluble.
Evaporation rate	: Not available.
Volatile	: 85-88%

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	1650mg/kg-Cat, 4700mg/kg-Rat >=5000mg/kg-Rat	Ethylene glycol Coloring agent
Inhalation LC50	Not available.	
Skin LD50	9530uL/kg-Rabbit	Ethylene glycol

Local effects 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 irritation	Ethylene glycol Coloring agent / Resin
Skin contact	irritation,dry redness,swelling irritation	Ethylene glycol Coloring agent Resin
Eye contact	irritation,redness irritation	Ethylene glycol Resin
Ingestion	nausea,vomiting	Ethylene glycol / Coloring agent

Specific effects Not available.

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.

R36/38 : Irritating to eyes and skin.

CANADA Hazardous Products Act - Ingredient Disclosure List

: Not restricted.

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-120 Orange [uni-ball Signo]

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. : 067425A_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	50- 80
Ethylene glycol	107-21-1	Registered	2034733	10- 30
Additives	Registered	Registered	Registered Polymer	10- 30
Coloring agent	Registered	Registered	Registered	< 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 refill : 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 PEL(Nuisance Dust)	Coloring agent
ACGIH	100mg/m ³ ceiling (particulate)(aerosol) 10mg/m ³ (Nuisance particulate)	Ethylene glycol Coloring agent
EC	52mg/m ³ (20ppm) TWA, 104mg/m ³ (40ppm) STEL(skin)	Ethylene glycol

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 8.4
Boiling point	: Not available. [Water/ 100 C]
Melting point	: < -10 C
Flash point	: Not applicable.
Autoignition temperature	: Not applicable.
Explosion limits	: Not applicable.
Density	: about 1.1 / 25 C
Vapor density (air=1)	: Not applicable.
Solubility in water	: Soluble.
Evaporation rate	: Not available.
Volatile	: 66-69%

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	1650mg/kg-Cat, 4700mg/kg-Rat >5000mg/kg-Rat	Ethylene glycol Coloring agent
Inhalation LC50	Not available.	
Skin LD50	9530uL/kg-Rabbit	Ethylene glycol

Local effects	Irritant;inhalation, skin, eye dehydration	Ethylene glycol Additive
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	Ethylene glycol Coloring agent
Skin contact	irritation,dry allergic contact dermatitis sensitization	Ethylene glycol Coloring agent Additive
Eye contact	irritation,redness	Ethylene glycol
Ingestion	nausea,vomiting	Ethylene glycol / Coloring agent
Specific effects	Not available.	

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-120 Light blue [uni-ball Signo]

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
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 Address : 674 Lorimar Street, Port Melbourne VIC 3207
 Telephone Number : 03 9646 5630
 Emergency Telephone Number: 03 9646 5630
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Creation Date : July 2, 2014
 Revision Date :
 File No. : 067426A_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	50- 80
Additives	Registered	Registered	Registered Polymer	10- 30
1,2-Propanediol	57-55-6	Registered	2003380	10- 30
Resin	Registered	Registered	polymer	< 10
Coloring agent	Registered	Registered	Registered	< 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 refill : 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	5mg/m ³ (Respirable fraction), 15mg/m ³ (Total dust)[Nuisance Dust]	Coloring agent
ACGIH	10mg/m ³ (Nuisance particulate)	Coloring agent
EC	Not available.	

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

[] : Information of components.

Physical state and form	: Liquid.
Color	: Light blue.
Odor	: None odor.
pH	: about 8.4
Boiling point	: Not available. [Water/ 100 C]
Melting point	: < -10 C
Flash point	: Not applicable.
Autoignition temperature	: Not applicable.
Explosion limits	: Not applicable.
Density	: about 1.1 / 25 C
Vapor density (air=1)	: Not applicable.
Solubility in water	: Soluble.
Evaporation rate	: Not available.
Volatile	: 65-68%

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	20000mg/kg-Rat >5000mg/kg-Rat	1,2-Propanediol Coloring agent
Inhalation LC50	Not available.	
Skin LD50	20800mg/kg-Rabbit	1,2-Propanediol

Local effects : dehydration Additive

Chronic toxicity and long term toxicity

Repeated or prolonged contact may cause skin sensitization. 1,2-Propanediol

Signs and Symptoms of overexposure and aggravated by exposure

Inhalation	nausea,headache irritation	1,2-Propanediol Coloring agent
Skin contact	sensitization irritation,allergic reaction	Additive 1,2-Propanediol
Eye contact	irritation,pain irritation	1,2-Propanediol Coloring agent
Ingestion	allergic reaction,vomiting gastric disturbances	1,2-Propanediol Coloring agent

Specific effects Not available.

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) : Not restricted.

EU labeling

10%≤Xi;R36/38 : Not restricted.

 R36/38 : Irritating to eyes and skin.

CANADA Hazardous Products Act - Ingredient Disclosure List

1%over : 1,2-Propanediol

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-120 Violet [uni-ball Signo]

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. : 067427A_Aus Rev. 3.6.01.01

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	50- 80
Ethylene glycol	107-21-1	Registered	2034733	10- 30
Coloring agent	Registered	Registered	Registered	< 10
Additive	Registered	Registered	Registered	< 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 refill : 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	Not available.	
ACGIH	100mg/m ³ ceiling (particulate)(aerosol)	Ethylene glycol
EC	52mg/m ³ (20ppm) TWA, 104mg/m ³ (40ppm) STEL(skin)	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 8.4
Boiling point	: Not available. [Water/ 100 C]
Melting point	: < -10 C
Flash point	: Not applicable.
Autoignition temperature	: Not applicable.
Explosion limits	: Not applicable.
Density	: about 1.1 / 25 C
Vapor density (air=1)	: Not applicable.
Solubility in water	: Soluble.
Evaporation rate	: Not available.
Volatile	: 74-77%

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	1650mg/kg-Cat, 4700mg/kg-Rat >10000mg/kg-Rat	Ethylene glycol Coloring agent
Inhalation LC50	Not available.	
Skin LD50	9530uL/kg-Rabbit	Ethylene glycol
Local effects	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 irritation	Ethylene glycol Coloring agent
Skin contact	irritation,dry	Ethylene glycol
Eye contact	irritation,redness	Ethylene glycol
Ingestion	nausea,vomiting	Ethylene glycol

Specific effects Not available.

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-120 Pink [uni-ball Signo]

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. : 067428A_Aus Rev. 3.6.01.01

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	10- 30
Ethylene glycol	107-21-1	Registered	2034733	10- 30
Coloring agents	Registered	Registered	Registered	10- 30
Glycerine	56-81-5	Registered	2002895	10- 30
Additive	Registered	Registered	Registered	< 10
Resins	Registered	Registered	polymer	< 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 refill : 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	5mg/m ³ TWA(respirable dust fraction), 15mg/m ³ TWA (total dust)	Glycerine
ACGIH	100mg/m ³ ceiling (particulate)(aerosol) 10mg/m ³ TWA	Ethylene glycol Glycerine
EC	52mg/m ³ (20ppm) TWA, 104mg/m ³ (40ppm) STEL(skin)	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 8.4
Boiling point	: Not available. [Water/ 100 C]
Melting point	: < -10 C
Flash point	: Not applicable.
Autoignition temperature	: Not applicable.
Explosion limits	: Not applicable.
Density	: about 1.1 / 25 C
Vapor density (air=1)	: Not applicable.
Solubility in water	: Soluble.
Evaporation rate	: Not available.
Volatile	: 78-81%

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	1650mg/kg-Cat, 4700mg/kg-Rat 2950mg/kg-Mouse 4090mg/kg-Mouse	Ethylene glycol Coloring agent Glycerine
Inhalation LC50	>570mg/m ³ 1H-Rat	Glycerine
Skin LD50	9530uL/kg-Rabbit >10000mg/kg-Rabbit	Ethylene glycol Glycerine

Local effects 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 irritation,pneumonitis irritation,difficulty breathing	Ethylene glycol Resin Glycerine
Skin contact	irritation,dry irritation,sensitization burns,corrosive irritation,redness	Ethylene glycol Resin Coloring agent Glycerine
Eye contact	irritation,redness irritation tearing,stinging	Ethylene glycol Resin Glycerine
Ingestion	nausea,vomiting diarrhea,pneumonitis	Ethylene glycol / Coloring agent / Glycerine Resin
Specific effects	IARC Group 3	Resin

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 / Glycerine

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-120 Green [uni-ball Signo]

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. : 067429A_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	50- 80
Additives	Registered	Registered	Registered Polymer	10- 30
Ethylene glycol	107-21-1	Registered	2034733	< 10
Coloring agent	Registered	Registered	Registered	< 10
Resin	Registered	Registered	polymer	< 10
Polyethylene glycol nonylphenylether	9016-45-9	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 refill : 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 PEL(Nuisance Dust)	Coloring agent
ACGIH	100mg/m ³ ceiling (particulate)(aerosol) 10mg/m ³ (Nuisance particulate)	Ethylene glycol Coloring agent
EC	52mg/m ³ (20ppm) TWA, 104mg/m ³ (40ppm) STEL(skin)	Ethylene glycol

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 8.4
Boiling point	: Not available. [Water/ 100 C]
Melting point	: < -10 C
Flash point	: Not applicable.
Autoignition temperature	: Not applicable.
Explosion limits	: Not applicable.
Density	: about 1.1 / 25 C
Vapor density (air=1)	: Not available.
Solubility in water	: Soluble.
Evaporation rate	: Not available.
Volatile	: 71-74%

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	1650mg/kg-Cat, 4700mg/kg-Rat >=5000mg/kg-Rat	Ethylene glycol Coloring agent / Resin
Inhalation LC50	Not available.	
Skin LD50	9530uL/kg-Rabbit	Ethylene glycol
Local effects	Irritant;inhalation, skin, eye dehydration	Ethylene glycol Additive

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	Ethylene glycol Coloring agent
Skin contact	irritation,dry irritation sensitization	Ethylene glycol Coloring agent / Resin Additive
Eye contact	irritation,redness irritation	Ethylene glycol Coloring agent / Resin
Ingestion	nausea,vomiting gastric disturbances	Ethylene glycol Coloring agent

Specific effects Not available.

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.