Safety data sheet for chemical products

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: PC-5M Black [POSCA]

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

BAN : 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 : August 24, 2001 Revision Date : March 7, 2014

File No. : 010243_Aus Rev. 3.6.06.05

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 | EINECS No. | Concentration range (wt%) |
|--------------------------|------------|------------|------------|---------------------------|
| Water | 7732-18-5 | Registered | 2317912 | 50-80 |
| Carbon Black | 1333-86-4 | Registered | 2156099 | < 10 |
| Resin | Registered | Registered | Registered | < 10 |
| Ethylene glycol | 107-21-1 | Registered | 2034733 | < 10 |
| Ethyl alcohol | 64-17-5 | Registered | 2005786 | < 10 |
| 2-Propanol | 67-63-0 | Registered | 2006617 | < 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 3.6g]

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.

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/m3 TWA | Carbon Black |
|-------|---|-----------------|
| | 1000ppm TWA | Ethyl alcohol |
| | 400 ppm TWA, 500ppm STEL | 2-Propanol |
| ACGIH | 3.5mg/m3 TWA | Carbon Black |
| | 100mg/m3 ceiling (particulate)(aerosol) | Ethylene glycol |
| | 1000ppm TWA | Ethyl alcohol |
| | 200ppm TWA, 400ppm STEL | 2-Propanol |
| EC | 3.5mg/m3 TWA | Carbon Black |
| | 52mg/m3(20ppm) TWA(skin), | Ethylene glycol |
| | 104mg/m3(40ppm) STEL(skin) | |
| | 1000ppm | Ethyl alcohol |

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

[]: Information of components.

Physical state and form : Liquid.
Color : Black.
Odor : Faint odor.
pH : about 8.5

Boiling point : Not available. [Water/ 100 C]

Melting point :<-10 C

Flash point : Not applicable. [2-Propanol/ 11.7 C] Auto ignition temperature : Not applicable. [Ethyl alcohol/ 363 C]

Explosion limits : Not applicable.

[Lower flammable limit / 2.0%, Upper flammable limit / 12.7% <2-Propanol>]

Density : about 1.1 / 25 C

Vapor density (air=1) : Not available. [2-Propanol/ 2.07-2.10]

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 | >10000mg/kg-Rat | Carbon Black |
|-----------------|--------------------------------|---------------------------------|
| 7 | 1650mg/kg-Cat、 | Ethylene glycol |
| | 4700mg/kg-Rat | |
| | 3450mg/kg-Mouse | Ethyl alcohol |
| | 3600mg/kg-Mouse | 2-Propanol |
| Inhalation LC50 | 20000ppm-10H-Rat | Ethyl alcohol |
| | 11100ppm-4H-Mouse | 2-Propanol |
| Skin LD50 | >3000mg/kg-Rabbit | Carbon Black |
| | 9530uL/kg-Rabbit | Ethylene glycol |
| | 12800mg/kg-Rabbit | 2-Propanol |
| Local effects | Irritant;inhalation, skin | Carbon Black |
| | Irritant;inhalation, skin, eye | Ethylene glycol / Ethyl alcohol |
| | Irritant; inhalation, eye | 2-Propanol |

Chronic toxicity and long term toxicity

Lungs may be affected by repeated or prolonged exposure at very high concentrations. Respiratory disorders.

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

The liquid defats the skin. The substance may have effects on the upper respiratory tract and central nervous system, resulting in irritation, headache, fatigue and lack of

The liquid defats the skin.

concentration.

Carbon Black Ethylene glycol

Ethyl alcohol

2-Propanol

Signs and Symptoms of overexposure and aggravated by exposure

| 0 1 | 1 88 | <i>U</i> 1 |
|-----------------|------------------------|---------------------------------|
| Inhalation | irritation | Carbon Black / Resin |
| | irritation,cough | Ethylene glycol / Ethyl alcohol |
| | irritation,nausea | 2-Propanol |
| Skin contact | irritation | Carbon Black / Resin |
| | irritation,dry | Ethylene glycol / Ethyl alcohol |
| | irritation, absorption | 2-Propanol |
| Eye contact | mechanical irritation, | Carbon Black |
| • | discoloration of lids | |
| | irritation | Resin |
| | irritation,redness | Ethylene glycol / Ethyl alcohol |
| | irritation,pain | 2-Propanol |
| Ingestion | nausea,vomiting | Ethylene glycol |
| | rash,vomiting | Ethyl alcohol |
| | nausea,stomach pain | 2-Propanol |
| pecific effects | IARC Group 2B | Carbon Black |
| | IARC Group 3 | 2-Propanol |
| | | |

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 : 960820

15. REGULATORY INFORMATION

Regulations (Information of components)

Hazardous chemicals (OSHA HCS)

: Carbon Black / Ethylene glycol / Ethyl alcohol / 2-Propanol

EU labeling : Not restricted.

CANADA Hazardous Products Act - Ingredient Disclosure List

Carbon Black / Ethylene glycol / 2-Propanol 1%over

0.1%over Ethyl alcohol

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: (March 7, 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: PC-5M Red [POSCA]

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

BAN : 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 : August 24, 2001 Revision Date : March 7, 2014

File No. : 010244A_Aus Rev. 3.6.08.05

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 | EINECS No. | Concentration range (wt%) |
|--------------------------|------------|------------|------------|---------------------------|
| Water | 7732-18-5 | Registered | 2317912 | 50- 80 |
| Titanium dioxide | 13463-67-7 | Registered | 2366755 | 10- 30 |
| Coloring agent | Registered | Registered | Registered | < 10 |
| Resins | Registered | Registered | Registered | < 10 |
| Ethylene glycol | 107-21-1 | Registered | 2034733 | < 10 |
| Ethyl alcohol | 64-17-5 | Registered | 2005786 | < 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.)

2/5 Creation Date: August 24, 2001 Revision Date: March 7, 2014

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 3.7g]

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.

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.

3/5

Revision Date: March

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures : Not required.

Control parameters (Information of components.)

| OSHA | 15mg/m3 TWA (Total dust) | Titanium dioxide |
|-------|---|------------------|
| | 1000ppm TWA | Ethyl alcohol |
| ACGIH | 10mg/m3 TWA | Titanium dioxide |
| | 100mg/m3 ceiling (particulate)(aerosol) | Ethylene glycol |
| | 1000ppm TWA | Ethyl alcohol |
| EC | 6mg/m3 | Titanium dioxide |
| | 52mg/m3(20ppm) TWA(skin), | Ethylene glycol |
| | 104mg/m3(40ppm) STEL(skin) | |
| | 1000ppm | Ethyl alcohol |

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

ſ]: Information of components.

Physical state and form : Liquid. : Red.Color Odor : Faint odor. рН : about 8.2

Boiling point : Not available. [Water/ 100 C]

Melting point :<-10 C

Flash point : Not applicable. [Ethyl alcohol/ 12.2 C(CC)] Auto ignition temperature : Not applicable. [Ethyl alcohol/ 363 C]

Explosion limits : Not applicable.

[Lower flammable limit / 3.28%, Upper flammable limit / 19.0% < Ethyl alcohol>]

Density : about 1.1 / 25 C

Vapor density (air=1) : Not available. [Ethyl alcohol/ 1.59]

Solubility in water : Soluble. Evaporation rate : Not available. Volatile : 72-75%

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 | Titanium dioxide |
|-----------------|------------------|------------------|
| | 1650mg/kg-Cat、 | Ethylene glycol |
| | 4700mg/kg-Rat | |
| | 3450mg/kg-Mouse | Ethyl alcohol |
| Inhalation LC50 | 6820mg/m3-4H-Rat | Titanium dioxide |
| | 20000ppm-10H-Rat | Ethyl alcohol |
| Skin LD50 | 9530uL/kg-Rabbit | Ethylene glycol |

Local effects Irritant; inhalation, skin, eye Ethylene glycol / Ethyl alcohol

Chronic toxicity and long term toxicity

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

The liquid defats the skin. The substance may have effects on the upper respiratory tract and central nervous system, resulting in irritation, headache, fatigue and lack of concentration.

Ethylene glycol

Ethyl alcohol

Signs and Symptoms of overexposure and aggravated by exposure

| | _ | |
|--------------|---|--|
| Inhalation | irritation,cough | Titanium dioxide / Ethylene glycol |
| | | Ethyl alcohol |
| | , | |
| | irritation | Coloring agent |
| | headache,nausea | Resin |
| Skin contact | redness,swelling of skin | Coloring agent |
| | irritation | Resin |
| | irritation,dry | Ethylene glycol / Ethyl alcohol |
| Eye contact | irritation,redness | Titanium dioxide / Ethylene glycol |
| | , | Ethyl alcohol |
| | | |
| | irritation | Resin |
| Ingestion | irritation physiologically inert,intestinal | Resin Titanium dioxide |
| Ingestion | | |
| Ingestion | physiologically inert,intestinal | |
| Ingestion | physiologically inert,intestinal obstruction | Titanium dioxide |
| Ingestion | physiologically inert,intestinal obstruction nausea,vomiting digestive discomfort | Titanium dioxide Coloring agent Resin |
| Ingestion | physiologically inert,intestinal obstruction nausea,vomiting digestive discomfort nausea,vomiting | Titanium dioxide Coloring agent Resin Ethylene glycol |
| Ingestion | physiologically inert,intestinal obstruction nausea,vomiting digestive discomfort | Titanium dioxide Coloring agent 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 : 960820

15. REGULATORY INFORMATION

Regulations (Information of components)

Hazardous chemicals (OSHA HCS) : Titanium dioxide / Ethylene glycol / Ethyl alcohol

EU labeling : Not restricted.

CANADA Hazardous Products Act - Ingredient Disclosure List

1%over Ethylene glycol 0.1%over Ethyl alcohol

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: (March 7, 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: PC-5M Blue [POSCA]

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

BAN : 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 : August 24, 2001 Revision Date : March 7, 2014

File No. : 010245A_Aus Rev. 3.6.06.03

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 | EINECS No. | Concentration range (wt%) |
|--------------------------|------------|------------|------------|---------------------------|
| Water | 7732-18-5 | Registered | 2317912 | 50- 80 |
| Titanium dioxide | 13463-67-7 | Registered | 2366755 | 10- 30 |
| Resins | Registered | Registered | Registered | < 10 |
| | | | Polymer | |
| Ethyl alcohol | 64-17-5 | Registered | 2005786 | < 10 |
| 2-Propanol | 67-63-0 | Registered | 2006617 | < 10 |
| Coloring agents | Registered | Registered | Registered | < 10 |
| Ethylene glycol | 107-21-1 | Registered | 2034733 | < 10 |
| Silica (amorphous) | 7631-86-9 | Registered | 2315454 | < 10 |
| Additive | Registered | Registered | Registered | < 10 |

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

2/5

Revision Date: March 7, 2014

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 4.1g]

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.

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/m3 TWA (Total dust) 1000ppm TWA 400 ppm TWA, 500ppm STEL 5mg/m3(Respirable fraction), 15mg/m3(Total dust) [Nuisance Dust] 5mg/m3(as Mo), 1mg/m3(as W) [Soluble compounds] | Titanium dioxide Ethyl alcohol 2-Propanol Coloring agent |
|-------|--|---|
| | 20mppcf TWA (<1% crystalline silica) | Silica (amorphous) |
| ACGIH | 10mg/m3 TWA 1000ppm TWA 200ppm TWA, 400ppm STEL 5mg/m3(as Mo), 1mg/m3(as W) [Soluble compounds] | Titanium dioxide Coloring agent Ethyl alcohol 2-Propanol |
| | 100mg/m3 ceiling (particulate)(aerosol) | Ethylene glycol |
| EC | 6mg/m3 1000ppm 52mg/m3(20ppm) TWA(skin), 104mg/m3(40ppm) STEL(skin) | Titanium dioxide Ethyl alcohol Ethylene glycol |

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

[]: Information of components.

Physical state and form : Liquid.
Color : Not available.

Odor : Blue. pH : about 8.4

Boiling point : Not available. [Water/ 100 C]

Melting point :<-10 C

Flash point : Not applicable. [2-Propanol/ 11.7 C]
Auto ignition temperature : Not applicable. [Ethyl alcohol/ 363 C]

Explosion limits : Not applicable.

[Lower flammable limit / 2.0% , Upper flammable limit / 12. 7 % <2-Propanol>]

Density : about 1.2 / 25 C

Vapor density (air=1) : Not available. [2-Propanol/ 2.07-2.10]

Solubility in water : Soluble. Evaporation rate : Not available. Volatile : 63-66%

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 | Titanium dioxide |
|-----------------|----------------------|--------------------|
| | 3450mg/kg-Mouse | Ethyl alcohol |
| | 3600mg/kg-Mouse | 2-Propanol |
| | \geq 5000mg/kg-Rat | Coloring agent |
| | 1650mg/kg-Cat | Ethylene glycol |
| | 4700mg/kg-Rat | |
| | 3160mg/kg-Rat | Silica (amorphous) |
| Inhalation LC50 | 6820mg/m3-4H-Rat | Titanium dioxide |
| | 20000ppm-10H-Rat | Ethyl alcohol |
| | 11100ppm-4H-Mouse | 2-Propanol |
| Skin LD50 | 12800mg/kg-Rabbit | 2-Propanol |
| | 9530uL/kg-Rabbit | Ethylene glycol |
| | | |

Local effects Irritant; inhalation, skin, eye Ethyl alcohol / Ethylene glycol

Irritant;inhalation, eye 2-Propanol

Chronic toxicity and long term toxicity

The liquid defats the skin. The substance may have effects on the upper respiratory tract and central nervous system, resulting in irritation, headache, fatigue and lack of

concentration..

The liquid defats the skin.

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

Ethyl alcohol

2-Propanol Ethylene glycol

Signs and Symptoms of overexposure and aggravated by exposure

| Inhalation | irritation,cough | Titanium dioxide / Ethyl alcohol Ethylene glycol / Silica (amorphous) |
|--------------|-----------------------|--|
| | irritation | Resin / Coloring agent |
| | irritation,nausea | 2-Propanol |
| Skin contact | irritation | Resin |
| | irritation,dry | Ethyl alcohol / Ethylene glycol |
| | | Silica (amorphous) |
| | irritation,absorption | 2-Propanol |
| Eye contact | irritation,redness | Titanium dioxide / Ethyl alcohol |
| - | | Ethylene glycol / Silica (amorphous) |
| | irritation | Resin / Coloring agent |
| | irritation,pain | 2-Propanol |

Ingestion physiologically inert, Titanium dioxide

intestinal obstruction

rash,vomiting

nausea,stomach pain
gastric disturbances
nausea,vomiting

Ethyl alcohol
2-Propanol
Coloring agent
Ethylene glycol

Specific effects IARC Group 2B Titanium dioxide

IARC Group 3 2-Propanol / Silica (amorphous)

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 : 960820

15. REGULATORY INFORMATION

Regulations (Information of components)

Hazardous chemicals (OSHA HCS)

: Titanium dioxide / Ethyl alcohol / 2-Propanol / Ethylene glycol

EU labeling : Not restricted.

CANADA Hazardous Products Act - Ingredient Disclosure List

0.1%over Ethyl alcohol

1%over 2-Propanol / Ethylene glycol / Silica (amorphous)

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: (March 7, 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: PC-5M Green [POSCA]

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

BAN : 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 : August 24, 2001 Revision Date : March 7, 2014

File No. : 010246A_Aus Rev. 3.6.07.05

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 | EINECS No. | Concentration range (wt%) |
|--------------------------|------------|------------|------------|---------------------------|
| Water | 7732-18-5 | Registered | 2317912 | 50- 80 |
| Titanium dioxide | 13463-67-7 | Registered | 2366755 | 10- 30 |
| Resins | Registered | Registered | Registered | < 10 |
| Coloring agents | Registered | Registered | Registered | < 10 |
| Ethylene glycol | 107-21-1 | Registered | 2034733 | < 10 |
| Ethyl alcohol | 64-17-5 | Registered | 2005786 | < 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 3.9g]

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.

: 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.

: Avoid direct sunlight. Storage condition

: 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/m3 TWA (Total dust) | Titanium dioxide |
|-------|---|--------------------|
| | 15mg/m3 PEL (Nuisance Dust) | Coloring agent |
| | 1000ppm TWA | Ethyl alcohol |
| ACGIH | 10mg/m3 TWA | Titanium dioxide / |
| | | Coloring agent |
| | 100mg/m3 ceiling (particulate)(aerosol) | Ethylene glycol |
| | 1000ppm TWA | Ethyl alcohol |
| EC | 6mg/m3 | Titanium dioxide |
| | 52mg/m3(20ppm) TWA(skin), | Ethylene glycol |
| | 104mg/m3(40ppm) STEL(skin) | |
| | 1000ppm | Ethyl alcohol |

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

]: Information of components.

Physical state and form : Liquid. Color : Green. Odor : Faint odor. рΗ : about 8.2

: Not available. [Water/ 100 C] Boiling point

Melting point :<-10 C

Flash point : Not applicable. [Ethyl alcohol/ 12.2 C(CC)] Auto ignition temperature : Not applicable. [Ethyl alcohol/ 363 C]

Explosion limits : Not applicable.

[Lower flammable limit / 3.28%, Upper flammable limit / 19.0% < Ethyl alcohol>]

Density : about 1.1 / 25 C

Vapor density (air=1) : Not available. [Ethyl alcohol/ 1.59]

Solubility in water : Soluble. : Not available. Evaporation rate Volatile : 73-76%

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 | Titanium dioxide |
|-----------------|----------------------|------------------|
| | \geq 5000mg/kg-Rat | Coloring agent |
| | 1650mg/kg-Cat、 | Ethylene glycol |
| | 4700mg/kg-Rat | |
| | 3450mg/kg-Mouse | Ethyl alcohol |
| Inhalation LC50 | 6820mg/m3-4H-Rat | Titanium dioxide |
| | 20000ppm-10H-Rat | Ethyl alcohol |
| Skin LD50 | 9530uL/kg-Rabbit | Ethylene glycol |

Local effects Irritant;inhalation, skin, eye Ethylene glycol / Ethyl alcohol

Chronic toxicity and long term toxicity

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

The liquid defats the skin. The substance may have effects on the upper respiratory tract and central nervous system, resulting in irritation, headache, fatigue and lack of concentration. Ethylene glycol

Ethyl alcohol

Signs and Symptoms of overexposure and aggravated by exposure

| Inhalation | irritation,cough | Titanium dioxide / Ethylene glycol Ethyl alcohol |
|------------------|--|---|
| | headache,nausea | Resin |
| | irritation | Coloring agent |
| Skin contact | irritation | Resin / Coloring agent |
| | irritation,dry | Ethylene glycol / Ethyl alcohol |
| Eye contact | irritation,redness | Titanium dioxide / Ethylene glycol |
| v | · | Ethyl alcohol |
| | irritation | Resin / Coloring agent |
| Ingestion | physiologically inert,intestinal obstruction | Titanium dioxide |
| | digestive discomfort | Resin |
| | nausea,vomiting | Coloring agent / Ethylene glycol |
| | rash,vomiting | Ethyl alcohol |
| 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.

5/5Revision Date: March

14. TRANSPORT INFORMATION

HS Code : 960820

15. REGULATORY INFORMATION

Regulations (Information of components)

Hazardous chemicals (OSHA HCS) : Titanium dioxide / Ethylene glycol / Ethyl alcohol

EU labeling : Not restricted.

CANADA Hazardous Products Act - Ingredient Disclosure List

1%over Ethylene glycol 0.1%over Ethyl alcohol

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: (March 7, 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: PC-5M Light green [POSCA]

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

BAN : 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 : August 24, 2001 Revision Date : March 7, 2014

File No. : 010247A_Aus Rev. 3.6.07.05

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 | EINECS No. | Concentration range (wt%) |
|--------------------------|------------|------------|------------|---------------------------|
| Water | 7732-18-5 | Registered | 2317912 | 50- 80 |
| Titanium dioxide | 13463-67-7 | Registered | 2366755 | 10- 30 |
| Resins | Registered | Registered | Registered | < 10 |
| Ethylene glycol | 107-21-1 | Registered | 2034733 | < 10 |
| Ethyl alcohol | 64-17-5 | Registered | 2005786 | < 10 |
| Coloring agents | Registered | Registered | Registered | < 10 |
| 2-Propanol | 67-63-0 | Registered | 2006617 | < 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 4.1g]

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.

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.

3/5 Creation Date: August 24, 2001 Revision Date: March 7, 2014

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/m3 TWA (Total dust) | Titanium dioxide |
|-------|---|--------------------|
| | 1000ppm TWA | Ethyl alcohol |
| | 15mg/m3 PEL (Nuisance Dust) | Coloring agent |
| | 400 ppm TWA, 500ppm STEL | 2-Propanol |
| ACGIH | 10mg/m3 TWA | Titanium dioxide / |
| | | Coloring agent |
| | 100mg/m3 ceiling (particulate)(aerosol) | Ethylene glycol |
| | 1000ppm TWA | Ethyl alcohol |
| | 200ppm TWA, 400ppm STEL | 2-Propanol |
| EC | 6mg/m3 | Titanium dioxide |
| | 52mg/m3(20ppm) TWA(skin), | Ethylene glycol |
| | 104mg/m3(40ppm) STEL(skin) | |
| | 1000ppm | Ethyl alcohol |

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

[]: Information of components.

Physical state and form : Liquid.
Color : Light green.
Odor : Faint odor.
pH : about 8.5

Boiling point : Not available. [Water/ 100 C]

Melting point :<-10 C

Flash point : Not applicable. [2-Propanol/ 11.7 C]
Auto ignition temperature : Not applicable. [Ethyl alcohol/ 363 C]

Explosion limits : Not applicable.

[Lower flammable limit / 2.0%, Upper flammable limit / 12.7% <2-Propanol>]

Density : about 1.2 / 25 C

Vapor density (air=1) : Not available. [2-Propanol/ 2.07-2.10]

Solubility in water : Soluble. Evaporation rate : Not available. Volatile : 69-72%

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.

Creation Date: August 24, 2001 4/5 Revision Date: March 7, 2014

Materials to avoid : Not available. Hazardous decomposition products : Not available.

11.TOXICOLOGICAL INFORMATION

| - | TC | . • | c | | , \ | |
|---|--------------|-------|------------------|-------|-----------|--|
| (| Intorma | tion. | \cap t | com: | ponents) | |
| • | (IIIIOI IIIA | OTOTI | $o_{\mathbf{I}}$ | COIII | pomentus/ | |

| A . | | • , |
|-------|------|------|
| Acute | toxi | city |
| | | |

| Ingestion LD50 | >24000mg/kg-Rat | Titanium dioxide |
|-----------------|----------------------|------------------|
| | 1650mg/kg-Cat、 | Ethylene glycol |
| | 4700mg/kg-Rat | |
| | 3450mg/kg-Mouse | Ethyl alcohol |
| | \geq 5000mg/kg-Rat | Coloring agent |
| | 3600mg/kg-Mouse | 2-Propanol |
| Inhalation LC50 | 6820mg/m3-4H-Rat | Titanium dioxide |
| | 20000ppm-10H-Rat | Ethyl alcohol |
| | 11100ppm-4H-Mouse | 2-Propanol |
| Skin LD50 | 9530uL/kg-Rabbit | Ethylene glycol |
| | 12800mg/kg-Rabbit | 2-Propanol |
| | | |

Local effects Irritant; inhalation, skin, eye Ethylene glycol / Ethyl alcohol

Irritant; inhalation, eye 2-Propanol

Chronic toxicity and long term toxicity

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

The liquid defats the skin. The substance may have effects on the upper respiratory tract and central nervous system, resulting in irritation, headache, fatigue and lack of concentration.

Ethyl alcohol

Ethylene glycol

The liquid defats the skin. 2-Propanol

Signs and Symptoms of overexposure and aggravated by exposure

| Inhalation | irritation,cough | Titanium dioxide / Ethylene glycol |
|------------------|----------------------------------|------------------------------------|
| | | Ethyl alcohol |
| | headache,nausea | Resin |
| | irritation | Coloring agent |
| | irritation,nausea | 2-Propanol |
| Skin contact | irritation | Resin |
| | irritation,dry | Ethylene glycol / Ethyl alcohol |
| | redness,swelling | Coloring agent |
| | irritation, absorption | 2-Propanol |
| Eye contact | irritation,redness | Titanium dioxide / Ethylene glycol |
| • | | Ethyl alcohol |
| | irritation | Resin / Coloring agent |
| | irritation,pain | 2-Propanol |
| Ingestion | physiologically inert,intestinal | Titanium dioxide |
| | obstruction | |
| | digestive discomfort | Resin |
| | nausea,vomiting | Ethylene glycol / Coloring agent |
| | rash,vomiting | Ethyl alcohol |
| | nausea,stomach pain | 2-Propanol |
| Specific effects | IARC Group 2B | Titanium dioxide |
| | IARC Group 3 | 2-Propanol |

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 : 960820

15. REGULATORY INFORMATION

Regulations (Information of components)

Hazardous chemicals (OSHA HCS)

: Titanium dioxide / Ethylene glycol / Ethyl alcohol / 2-Propanol

EU labeling : Not restricted.

CANADA Hazardous Products Act - Ingredient Disclosure List 1%over Ethylene glycol / 2-Propanol

0.1%over Ethyl alcohol

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: (March 7, 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: PC-5M Violet [POSCA]

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

BAN : 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 : August 24, 2001 Revision Date : March 7, 2014

File No. : 010248A_Aus Rev. 3.6.07.06

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 | EINECS No. | Concentration range (wt%) |
|-----------------------------------|------------|------------|------------|---------------------------|
| Water | 7732-18-5 | Registered | 2317912 | 50- 80 |
| Titanium dioxide | 13463-67-7 | Registered | 2366755 | 10- 30 |
| Resins | Registered | Registered | Registered | 10- 30 |
| Ethylene glycol | 107-21-1 | Registered | 2034733 | < 10 |
| Coloring agents | Registered | Registered | Registered | < 10 |
| Polyoxyethylene nonylphenyl ether | 9016-45-9 | Registered | Registered | < 1 |

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

2/5

Revision Date: March 7, 2014

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 3.8g]

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.

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/m3 TWA (Total dust) | Titanium dioxide |
|-------|---|--------------------|
| ACGIH | 10mg/m3 TWA | Titanium dioxide / |
| | | Coloring agent |
| | 100mg/m3 ceiling (particulate)(aerosol) | Ethylene glycol |
| EC | 6mg/m3 | Titanium dioxide |
| | 52mg/m3(20ppm) EC MAK TWA(skin), 104mg/m3(40ppm) EC MAK 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 : Faint odor.
pH : about 8.3

Boiling point : Not available. [Water/ 100 C]

Melting point : <-10 C

Flash point : Not applicable. [Ethylene glycol/ 111 C(CC)]
Auto ignition temperature : Not applicable. [Ethylene glycol/ 398 C]

Explosion limits : Not applicable.

[Lower flammable limit / 3.2%, Upper flammable limit / 15.3% < Ethylene glycol>]

Density : about 1.1 / 25 C

Vapor density (air=1) : Not available. [Ethylene glycol/ 2.1]

Solubility in water : Soluble. Evaporation rate : Not available. Volatile : 72-75%

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 | Titanium dioxide |
|-----------------|------------------|-----------------------------------|
| | 1000mg/kg-Mouse | Resin |
| | 1650mg/kg-Cat、 | Ethylene glycol |
| | 4700mg/kg-Rat | |
| | 2950mg/kg-Mouse | Coloring agent |
| | 1310mg/kg-Rat | Polyoxyethylene nonylphenyl ether |
| Inhalation LC50 | 6820mg/m3-4H-Rat | Titanium dioxide |
| Skin LD50 | 9530uL/kg-Rabbit | Ethylene glycol |
| | 2ml/kg-Rabbit | Polyoxyethylene nonylphenyl ether |
| | | |

Local effects Irritant;inhalation, skin, eye Ethylene glycol

Irritant;eye Polyoxyethylene nonylphenyl ether

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 / Resin |
|------------------|----------------------------------|------------------------------------|
| | | Ethylene glycol |
| | irritation | Coloring agent |
| | | Polyoxyethylene nonylphenyl |
| Skin contact | mechanical abrasion,irritation | Resin |
| | irritation,dry | Ethylene glycol |
| | burns,corrosive | Coloring agent |
| | irritation | Polyoxyethylene nonylphenyl ether |
| Eye contact | irritation,redness | Titanium dioxide / Ethylene glycol |
| | irritation | Resin |
| | irritation,eye damage | Polyoxyethylene nonylphenyl ether |
| Ingestion | physiologically inert,intestinal | Titanium dioxide |
| | obstruction | |
| | digestive discomfort | Resin |
| | nausea,vomiting | Ethylene glycol / Coloring agent |
| | digestive disorders,diarrhea | Polyoxyethylene nonylphenyl ether |
| Specific effects | IARC Group 2B | Titanium dioxide |
| _ | 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 : 960820

15. REGULATORY INFORMATION

Regulations (Information of components)

Hazardous chemicals (OSHA HCS) : Titanium dioxide / 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: (March 7, 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: PC-5M Light orange [POSCA]

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

BAN : 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 : August 24, 2001 Revision Date : March 7, 2014

File No. : 010249A Aus Rev. 3.6.07.05

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 | EINECS No. | Concentration range (wt%) |
|--------------------------|------------|------------|------------|---------------------------|
| Water | 7732-18-5 | Registered | 2317912 | 50- 80 |
| Titanium dioxide | 13463-67-7 | Registered | 2366755 | 10- 30 |
| Resins | Registered | Registered | Registered | < 10 |
| Ethyl alcohol | 64-17-5 | Registered | 2005786 | < 10 |
| Ethylene glycol | 107-21-1 | Registered | 2034733 | < 10 |
| 2-Propanol | 67-63-0 | Registered | 2006617 | < 10 |
| Coloring agents | Registered | Registered | Registered | < 10 |

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

Creation Date: August 24, 2001 Revision Date: March 7, 2014

4. FIRST-AID MEASURES

Inhalation:

2/5

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 4.2g]

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.

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.

Creation Date : August 24, 2001 Revision Date : March 7, 2014

Incompatible products : Not available. Packaging materials : Not applicable.

3/5

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures : Not required.

Control parameters (Information of components.)

| OSHA | 15mg/m3 TWA (Total dust) | Titanium dioxide |
|-------|---|------------------|
| | 1000ppm TWA | Ethyl alcohol |
| | 400 ppm TWA, 500ppm STEL | 2-Propanol |
| ACGIH | 10mg/m3 TWA | Titanium dioxide |
| | 1000ppm TWA | Ethyl alcohol |
| | 100mg/m3 ceiling (particulate)(aerosol) | Ethylene glycol |
| | 200ppm TWA, 400ppm STEL | 2-Propanol |
| EC | 6mg/m3 | Titanium dioxide |
| | 1000ppm | Ethyl alcohol |
| | 52mg/m3(20ppm) TWA(skin), | Ethylene glycol |
| | 104mg/m3(40ppm) STEL(skin) | |

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

[]: Information of components.

Physical state and form : Liquid.
Color : Light orange.
Odor : Faint odor.
pH : about 8.1

Boiling point : Not available. [Water/ 100 C]

Melting point :<-10 C

Flash point : Not applicable. [2-Propanol/ 11.7 C] Auto ignition temperature : Not applicable. [Ethyl alcohol/ 363 C]

Explosion limits : Not applicable.

[Lower flammable limit / 2.0%, Upper flammable limit / 12.7% <2-Propanol>]

Density : about 1.2 / 25 C

Vapor density (air=1) : Not available. [2-Propanol/ 2.07-2.10]

Solubility in water : Soluble. Evaporation rate : Not available. Volatile : 68-71%

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)

| A . | |
|--------|----------|
| Acute | toxicity |
| ricate | UOMICIU |

| Ingestion LD50 | >24000mg/kg-Rat | Titanium dioxide |
|-----------------|--------------------------------|---------------------------------|
| | 3450mg/kg-Mouse | Ethyl alcohol |
| | 1650mg/kg-Cat、 | Ethylene glycol |
| | 4700mg/kg-Rat | |
| | 3600mg/kg-Mouse | 2-Propanol |
| | >15000mg/kg-Rat | Coloring agent |
| Inhalation LC50 | 6820mg/m3-4H-Rat | Titanium dioxide |
| | 20000ppm-10H-Rat | Ethyl alcohol |
| | 11100ppm-4H-Mouse | 2-Propanol |
| Skin LD50 | 9530uL/kg-Rabbit | Ethylene glycol |
| | 12800mg/kg-Rabbit | 2-Propanol |
| Local effects | Irritant;inhalation, skin, eye | Ethyl alcohol / Ethylene glycol |

Chronic toxicity and long term toxicity

The liquid defats the skin. The substance may have effects on the upper respiratory tract and central nervous system, resulting in irritation, headache, fatigue and lack of concentration.

Ethyl alcohol

2-Propanol

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

The liquid defats the skin.

2-Propanol

Signs and Symptoms of overexposure and aggravated by exposure

Irritant; inhalation, eye

| Inhalation | irritation,cough | Titanium dioxide / Ethyl alcohol |
|------------------|----------------------------------|----------------------------------|
| | | Ethylene glycol |
| | headache,nausea | Resin |
| | irritation,nausea | 2-Propanol |
| | irritation | Coloring agent |
| Skin contact | irritation | Resin |
| | irritation,dry | Ethyl alcohol / Ethylene glycol |
| | irritation, absorption | 2-Propanol |
| | redness,swelling | Coloring agent |
| Eye contact | irritation,redness | Titanium dioxide / Ethyl alcohol |
| | | Ethylene glycol |
| | irritation | Resin |
| | irritation,pain | 2-Propanol |
| Ingestion | physiologically inert,intestinal | Titanium dioxide |
| | obstruction | |
| | digestive discomfort | Resin |
| | rash,vomiting | Ethyl alcohol |
| | nausea,vomiting | Ethylene glycol / Coloring agent |
| | nausea,stomach pain | 2-Propanol |
| Specific effects | IARC Group 2B | Titanium dioxide |
| | IARC Group 3 | 2-Propanol |

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 : 960820

15. REGULATORY INFORMATION

Regulations (Information of components)

Hazardous chemicals (OSHA HCS)

: Titanium dioxide / Ethyl alcohol / Ethylene glycol / 2-Propanol

EU labeling : Not restricted.

CANADA Hazardous Products Act - Ingredient Disclosure List

0.1%over Ethyl alcohol

1%over Ethylene glycol / 2-Propanol

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: (March 7, 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: PC-5M Bright yellow [POSCA]

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

BAN : 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 : August 24, 2001 Revision Date : March 7, 2014

File No. : 010250A_Aus Rev. 3.6.07.05

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 | EINECS No. | Concentration range (wt%) |
|--------------------------|------------|------------|------------|---------------------------|
| Water | 7732-18-5 | Registered | 2317912 | 50- 80 |
| Titanium dioxide | 13463-67-7 | Registered | 2366755 | < 10 |
| Coloring agents | Registered | Registered | Registered | < 10 |
| Resins | Registered | Registered | Registered | < 10 |
| Ethylene glycol | 107-21-1 | Registered | 2034733 | < 10 |
| Ethyl alcohol | 64-17-5 | Registered | 2005786 | < 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.)

2/5 Creation Date: August 24, 2001 Revision Date: March 7, 2014

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 3.8g]

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.

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.

3/5

Revision Date: March

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures : Not required.

Control parameters (Information of components.)

| OSHA | 15mg/m3 TWA (Total dust) 5mg/m3(Respirable fraction), 15mg/m3(Total dust) [Nuisance Dust] | Titanium dioxide Coloring agent |
|-------|---|------------------------------------|
| | 1000ppm TWA | Ethyl alcohol |
| ACGIH | 10mg/m3 TWA | Titanium dioxide / |
| | | Coloring agent |
| | 100mg/m3 ceiling (particulate)(aerosol) | Ethylene glycol |
| | 1000ppm TWA | Ethyl alcohol |
| EC | 6mg/m3 | Titanium dioxide |
| | 52mg/m3(20ppm) TWA(skin), 104mg/m3(40ppm) STEL(skin) | Ethylene glycol |
| | 1000ppm | Ethyl alcohol |

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

]: Information of components.

Physical state and form : Liquid. Color : Bright yellow.

Odor : Faint odor. Нα : about 8.3

Boiling point : Not available. [Water/ 100 C]

Melting point :<-10 C

Flash point : Not applicable. [Ethyl alcohol/ 12.2 C(CC)] Auto ignition temperature : Not applicable. [Ethyl alcohol/ 363 C]

Explosion limits : Not applicable.

[Lower flammable limit / 3.28%, Upper flammable limit / 19.0% < Ethyl alcohol>]

Density : about 1.1 / 25 C

Vapor density (air=1) : Not available. [Ethyl alcohol/ 1.59]

Solubility in water : Soluble. Evaporation rate : Not available. Volatile : 76-80%

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 | Titanium dioxide |
|-----------------|----------------------|------------------|
| | \geq 5000mg/kg-Rat | Coloring agent |
| | 1650mg/kg-Cat、 | Ethylene glycol |
| | 4700mg/kg-Rat | |
| | 3450mg/kg-Mouse | Ethyl alcohol |
| Inhalation LC50 | 6820mg/m3-4H-Rat | Titanium dioxide |
| | 20000ppm-10H-Rat | Ethyl alcohol |
| Skin LD50 | 9530uL/kg-Rabbit | Ethylene glycol |

Local effects Irritant;inhalation, skin, eye Ethylene glycol / Ethyl alcohol

Chronic toxicity and long term toxicity

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

The liquid defats the skin. The substance may have effects on the upper respiratory tract and central nervous system, resulting in irritation, headache, fatigue and lack of concentration. Ethylene glycol

Ethyl alcohol

Signs and Symptoms of overexposure and aggravated by exposure

| Inhalation | irritation,cough | Titanium dioxide / Ethylene glycol Ethyl alcohol |
|------------------|----------------------------------|---|
| | irritation | Coloring agent |
| | headache,nausea | Resin |
| Skin contact | redness,swelling | Coloring agent |
| | irritation | Resin |
| | irritation,dry | Ethylene glycol / Ethyl alcohol |
| Eye contact | irritation,redness | Titanium dioxide / Ethylene glycol |
| | | Ethyl alcohol |
| | irritation | Resin |
| Ingestion | physiologically inert,intestinal | Titanium dioxide |
| | obstruction | |
| | nausea,vomiting | Coloring agent / Ethylene glycol |
| | digestive discomfort | Resin |
| | rash,vomiting | Ethyl alcohol |
| 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 : 960820

5/5

15. REGULATORY INFORMATION

Regulations (Information of components)

Hazardous chemicals (OSHA HCS) : Titanium dioxide / Ethylene glycol / Ethyl alcohol

EU labeling : Not restricted.

CANADA Hazardous Products Act - Ingredient Disclosure List

1%over Ethylene glycol 0.1%over Ethyl alcohol

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: (March 7, 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: PC-5M Yellow [POSCA]

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

BAN : 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 : August 24, 2001 Revision Date : March 7, 2014

File No. : 010251A Aus Rev. 3.6.07.05

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 | EINECS No. | Concentration range (wt%) |
|--------------------------|------------|------------|------------|---------------------------|
| Water | 7732-18-5 | Registered | 2317912 | 50- 80 |
| Titanium dioxide | 13463-67-7 | Registered | 2366755 | < 10 |
| Coloring agents | Registered | Registered | Registered | < 10 |
| Resins | Registered | Registered | Registered | < 10 |
| Ethylene glycol | 107-21-1 | Registered | 2034733 | < 10 |
| Ethyl alcohol | 64-17-5 | Registered | 2005786 | < 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.)

2/5 Creation Date: August 24, 2001 Revision Date: March 7, 2014

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 3.8g]

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.

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.

3/5

Revision Date: March

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures : Not required.

Control parameters (Information of components.)

| OSHA | 15mg/m3 TWA (Total dust) 5mg/m3(Respirable fraction), 15mg/m3(Total dust) [Nuisance Dust] | Titanium dioxide Coloring agent |
|-------|---|------------------------------------|
| | 1000ppm TWA | Ethyl alcohol |
| ACGIH | 10mg/m3 TWA | Titanium dioxide / |
| | | Coloring agent |
| | 100mg/m3 ceiling (particulate)(aerosol) | Ethylene glycol |
| | 1000ppm TWA | Ethyl alcohol |
| EC | 6mg/m3 | Titanium dioxide |
| | 52mg/m3(20ppm) TWA(skin), 104mg/m3(40ppm) STEL(skin) | Ethylene glycol |
| | 1000ppm | Ethyl alcohol |

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

]: Information of components.

Physical state and form : Liquid. Color : Yellow. Odor : Faint odor. Нα : about 8.3

Boiling point : Not available. [Water/ 100 C]

Melting point :<-10 C

Flash point : Not applicable. [Ethyl alcohol/ 12.2 C(CC)] Auto ignition temperature : Not applicable. [Ethyl alcohol/ 363 C]

Explosion limits : Not applicable.

[Lower flammable limit / 3.28%, Upper flammable limit / 19.0% < Ethyl alcohol>]

Density : about 1.1 / 25 C

Vapor density (air=1) : Not available. [Ethyl alcohol/ 1.59]

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 | >24000mg/kg-Rat | Titanium dioxide |
|-----------------|----------------------|------------------|
| | \geq 5000mg/kg-Rat | Coloring agent |
| | 1650mg/kg-Cat、 | Ethylene glycol |
| | 4700mg/kg-Rat | |
| | 3450mg/kg-Mouse | Ethyl alcohol |
| Inhalation LC50 | 6820mg/m3-4H-Rat | Titanium dioxide |
| | 20000ppm-10H-Rat | Ethyl alcohol |
| Skin LD50 | 9530uL/kg-Rabbit | Ethylene glycol |

Local effects Irritant; inhalation, skin, eye Ethylene glycol / Ethyl alcohol

Chronic toxicity and long term toxicity

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

The liquid defats the skin. The substance may have effects on the upper respiratory tract and central nervous system, resulting in irritation, headache, fatigue and lack of concentration.

Ethylene glycol

Ethyl alcohol

Signs and Symptoms of overexposure and aggravated by exposure

| Inhalation | irritation,cough | Titanium dioxide / Ethylene glycol Ethyl alcohol |
|------------------|----------------------------------|---|
| | irritation | Coloring agent |
| | headache,nausea | Resin |
| Skin contact | redness,swelling | Coloring agent |
| | irritation | Resin |
| | irritation,dry | Ethylene glycol / Ethyl alcohol |
| Eye contact | irritation,redness | Titanium dioxide / Ethylene glycol |
| · | | Ethyl alcohol |
| | irritation | Resin |
| Ingestion | physiologically inert,intestinal | Titanium dioxide |
| C | obstruction | |
| | nausea,vomiting | Coloring agent / Ethylene glycol |
| | digestive discomfort | Resin |
| | rash,vomiting | Ethyl alcohol |
| 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.

5/5Revision Date: March

14. TRANSPORT INFORMATION

HS Code : 960820

15. REGULATORY INFORMATION

Regulations (Information of components)

Hazardous chemicals (OSHA HCS)

: Titanium dioxide / Ethylene glycol / Ethyl alcohol

EU labeling : Not restricted.

CANADA Hazardous Products Act - Ingredient Disclosure List

1%over Ethylene glycol 0.1%over Ethyl alcohol

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: (March 7, 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: PC-5M Orange [POSCA]

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

BAN : 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 : August 24, 2001 Revision Date : March 7, 2014

File No. : 010252A Aus Rev. 3.6.08.05

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 | EINECS No. | Concentration range (wt%) |
|--------------------------|------------|------------|------------|---------------------------|
| Water | 7732-18-5 | Registered | 2317912 | 50- 80 |
| Titanium dioxide | 13463-67-7 | Registered | 2366755 | 10- 30 |
| Resins | Registered | Registered | Registered | < 10 |
| Coloring agents | Registered | Registered | Registered | < 10 |
| Ethylene glycol | 107-21-1 | Registered | 2034733 | < 10 |
| Ethyl alcohol | 64-17-5 | Registered | 2005786 | < 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.)

2/5 Creation Date: August 24, 2001 Revision Date: March 7, 2014

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 3.8g]

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.

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.

3/5

Revision Date: March

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures : Not required.

Control parameters (Information of components.)

| OSHA | 15mg/m3 TWA (Total dust) 5mg/m3(Respirable fraction), 15mg/m3(Total dust) [Nuisance Dust] | Titanium dioxide Coloring agent |
|-------|---|------------------------------------|
| | 1000ppm TWA | Ethyl alcohol |
| ACGIH | 10mg/m3 TWA | Titanium dioxide / |
| | | Coloring agent |
| | 100mg/m3 ceiling (particulate)(aerosol) | Ethylene glycol |
| | 1000ppm TWA | Ethyl alcohol |
| EC | 6mg/m3 | Titanium dioxide |
| | 52mg/m3(20ppm) TWA(skin), 104mg/m3(40ppm) STEL(skin) | Ethylene glycol |
| | 1000ppm | Ethyl alcohol |

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

]: Information of components.

Physical state and form : Liquid. : Orange. Color Odor : Faint odor. Нα : about 8.3

Boiling point : Not available. [Water/ 100 C]

Melting point :<-10 C

Flash point : Not applicable. [Ethyl alcohol/ 12.2 C(CC)] Auto ignition temperature : Not applicable. [Ethyl alcohol/ 363 C]

Explosion limits : Not applicable.

[Lower flammable limit / 3.28%, Upper flammable limit / 19.0% < Ethyl alcohol>]

Density : about 1.1 / 25 C

Vapor density (air=1) : Not available. [Ethyl alcohol/ 1.59]

Solubility in water : Soluble. Evaporation rate : Not available. Volatile : 73-76%

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 | Titanium dioxide |
|-----------------|----------------------|------------------|
| | \geq 5000mg/kg-Rat | Coloring agent |
| | 1650mg/kg-Cat、 | Ethylene glycol |
| | 4700mg/kg-Rat | |
| | 3450mg/kg-Mouse | Ethyl alcohol |
| Inhalation LC50 | 6820mg/m3-4H-Rat | Titanium dioxide |
| | 20000ppm-10H-Rat | Ethyl alcohol |
| Skin LD50 | 9530uL/kg-Rabbit | Ethylene glycol |

Local effects Irritant; inhalation, skin, eye Ethylene glycol / Ethyl alcohol

Chronic toxicity and long term toxicity

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

The liquid defats the skin. The substance may have effects on the upper respiratory tract and central nervous system, resulting in irritation, headache, fatigue and lack of concentration.

Ethylene glycol

Ethyl alcohol

Signs and Symptoms of overexposure and aggravated by exposure

| Inhalation | irritation,cough | Titanium dioxide / Ethylene glycol Ethyl alcohol |
|------------------|--------------------------|---|
| | headache,nausea | Resin |
| | irritation | Coloring agent |
| Skin contact | irritation | Resin |
| | redness,swelling of skin | Coloring agent |
| | irritation,dry | Ethylene glycol / Ethyl alcohol |
| Eye contact | irritation,redness | Titanium dioxide / Ethylene glycol |
| • | | Ethyl alcohol |
| | irritation | Resin |
| Ingestion | physiologically inert, | Titanium dioxide |
| | intestinal obstruction | |
| | digestive discomfort | Resin |
| | nausea,vomiting | Coloring agent / Ethylene glycol |
| | rash,vomiting | Ethyl alcohol |
| 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 : 960820

15. REGULATORY INFORMATION

Regulations (Information of components)

Hazardous chemicals (OSHA HCS)

: Titanium dioxide / Ethylene glycol / Ethyl alcohol

EU labeling : Not restricted.

CANADA Hazardous Products Act - Ingredient Disclosure List

1%overEthylene glycol0.1%overEthyl alcohol

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: (March 7, 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: PC-5M Pink [POSCA]

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

BAN : 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 : August 24, 2001 Revision Date : March 7, 2014

File No. : 010253A Aus Rev. 3.6.07.06

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 | EINECS No. | Concentration range (wt%) |
|-----------------------------------|------------|------------|------------|---------------------------|
| Water | 7732-18-5 | Registered | 2317912 | 50- 80 |
| Titanium dioxide | 13463-67-7 | Registered | 2366755 | 10- 30 |
| Resins | Registered | Registered | Registered | 10- 30 |
| Ethylene glycol | 107-21-1 | Registered | 2034733 | < 10 |
| Ethyl alcohol | 64-17-5 | Registered | 2005786 | < 10 |
| Coloring agents | Registered | Registered | Registered | < 10 |
| Polyoxyethylene nonylphenyl ether | 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 product : about 3.9g]

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.

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/m3 TWA | Titanium dioxide / |
|-------|---|--------------------|
| | | Coloring agent |
| | 1000ppm TWA | Ethyl alcohol |
| ACGIH | 10mg/m3 TWA | Titanium dioxide / |
| | | Coloring agent |
| | 1000ppm TWA | Ethyl alcohol |
| | 100mg/m3 ceiling (particulate)(aerosol) | Ethylene glycol |
| EC | 6mg/m3 | Titanium dioxide |
| | 52mg/m3(20ppm) TWA(skin), | Ethylene glycol |
| | 104mg/m3(40ppm) STEL(skin) | |
| | 1000ppm | Ethyl alcohol |

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

]: Information of components.

Physical state and form : Liquid. Color : Pink. Odor : Faint odor. рН : about 8.0

Boiling point : Not available. [Water/ 100 C]

Melting point :<-10 C

Flash point : Not applicable. [Ethyl alcohol/ 12.2 C(CC)] Auto ignition temperature : Not applicable. [Ethyl alcohol/ 363 C]

Explosion limits : Not applicable.

[Lower flammable limit / 3.28%, Upper flammable limit / 19.0% < Ethyl alcohol>]

Density : about 1.2 / 25 C

Vapor density (air=1) : Not available. [Ethyl alcohol/ 1.59]

Solubility in water : Soluble. Evaporation rate : Not available. Volatile : 68-71%

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

| Tiouro comicio | | |
|-----------------|--------------------------------|-----------------------------------|
| Ingestion LD50 | >24000mg/kg-Rat | Titanium dioxide |
| | 1000mg/kg-Mouse | Resin |
| | 1650mg/kg-Cat、 | Ethylene glycol |
| | 4700mg/kg-Rat | |
| | 3450mg/kg-Mouse | Ethyl alcohol |
| | 2950mg/kg-Mouse | Coloring agent |
| | 1310mg/kg-Rat | Polyoxyethylene nonylphenyl ether |
| Inhalation LC50 | 6820mg/m3-4H-Rat | Titanium dioxide |
| | 20000ppm-10H-Rat | Ethyl alcohol |
| Skin LD50 | 9530uL/kg-Rabbit | Ethylene glycol |
| | 2ml/kg-Rabbit | Polyoxyethylene nonylphenyl ether |
| Local effects | Irritant;inhalation, skin, eye | Ethylene glycol / Ethyl alcohol |
| | Irritant;eye | Polyoxyethylene nonylphenyl ether |

Chronic toxicity and long term toxicity

The substance may have effects on the central nervous system, resulting in

Ethylene glycol

abnormal eye movements (nystagmus).

The liquid defats the skin. The substance may have effects on the upper respiratory tract and central nervous system, resulting in irritation, headache, fatigue and lack of concentration. .

Ethyl alcohol

Signs and Symptoms of overexposure and aggravated by exposure

| Inhalation | irritation,cough | Titanium dioxide / Resin / |
|------------------|----------------------------------|------------------------------------|
| | | Ethylene glycol / Ethyl alcohol |
| | irritation | Coloring agent |
| | | Polyoxyethylene nonylphenyl ether |
| Skin contact | mechanical abrasion,irritation | Resin |
| | irritation,dry | Ethylene glycol / Ethyl alcohol |
| | redness,swelling of skin | Coloring agent |
| | irritation | Polyoxyethylene nonylphenyl ether |
| Eye contact | irritation,redness | Titanium dioxide / Ethylene glycol |
| - | | Ethyl alcohol |
| | irritation | Resin |
| | irritation,eye damage | Polyoxyethylene nonylphenyl ether |
| Ingestion | physiologically inert,intestinal | Titanium dioxide |
| | digestive discomfort | Resin |
| | nausea,vomiting | Ethylene glycol / Coloring agent |
| | rash,vomiting | Ethyl alcohol |
| | digestive disorders,diarrhea | Polyoxyethylene nonylphenyl ether |
| Specific effects | IARC Group 2B | Titanium dioxide |
| | IARC Group 3 | Resin |

12. ECOLOGICAL INFORMATION

Not available.

5/5

Revision Date: March 7, 2014

13. DISPOSAL CONSIDERATIONS

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

Contaminated packaging: Not applicable.

14. TRANSPORT INFORMATION

HS Code : 960820

15. REGULATORY INFORMATION

Regulations (Information of components)

Hazardous chemicals (OSHA HCS) : Titanium dioxide / Ethylene glycol / Ethyl alcohol

EU labeling : Not restricted.

CANADA Hazardous Products Act - Ingredient Disclosure List

1%over Ethylene glycol 0.1%over Ethyl alcohol

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: (March 7, 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: PC-5M Light blue [POSCA]

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

BAN : 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 : August 24, 2001 Revision Date : March 7, 2014

File No. : 010254A_Aus Rev. 3.6.07.05

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 | EINECS No. | Concentration range (wt%) |
|--------------------------|------------|------------|------------|---------------------------|
| Water | 7732-18-5 | Registered | 2317912 | 50- 80 |
| Titanium dioxide | 13463-67-7 | Registered | 2366755 | 10- 30 |
| Resins | Registered | Registered | Registered | < 10 |
| Ethyl alcohol | 64-17-5 | Registered | 2005786 | < 10 |
| Ethylene glycol | 107-21-1 | Registered | 2034733 | < 10 |
| 2-Propanol | 67-63-0 | Registered | 2006617 | < 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.)

2/5 Creation Date: August 24, 2001 Revision Date: March 7, 2014

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.

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

[Ink quantity of product : about 4.2g]

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.

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.

3/5

Revision Date: March

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures : Not required.

Control parameters (Information of components.)

| OSHA | 15mg/m3 TWA (Total dust) | Titanium dioxide |
|-------|---|--------------------|
| | 1000ppm TWA | Ethyl alcohol |
| | 400 ppm TWA, 500ppm STEL | 2-Propanol |
| | 5mg/m3(Respirable fraction), | Coloring agent |
| | 15mg/m3(Total dust) [Nuisance Dust] | |
| ACGIH | 10mg/m3 TWA | Titanium dioxide / |
| | | Coloring agent |
| | 1000ppm TWA | Ethyl alcohol |
| | 100mg/m3 ceiling (particulate)(aerosol) | Ethylene glycol |
| | 200ppm TWA, 400ppm STEL | 2-Propanol |
| EC | 6mg/m3 | Titanium dioxide |
| | 1000ppm | Ethyl alcohol |
| | 52mg/m3(20ppm) TWA(skin), | Ethylene glycol |
| | 104mg/m3(40ppm) STEL(skin) | |

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

ſ]: Information of components.

Physical state and form : Liquid. Color : Light blue. Odor : Faint odor. Hg : about 8.4

Boiling point : Not available. [Water/ 100 C]

Melting point : <-10 C

Flash point : Not applicable. [2-Propanol/ 11.7 C] Auto ignition temperature : Not applicable. [Ethyl alcohol/ 363 C]

Explosion limits : Not applicable.

[Lower flammable limit / 2.0%, Upper flammable limit / 12.7% <2-Propanol>]

Density : about 1.2 / 25 C

Vapor density (air=1) : Not available. [2-Propanol/ 2.07-2.10]

Solubility in water : Soluble. Evaporation rate : Not available. Volatile : 69-72%

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)

| A , | |
|--------|----------|
| Acute | toxicity |
| ricate | UOMICIUS |

| Ingestion LD50 | >24000mg/kg-Rat | Titanium dioxide |
|-----------------|--------------------------------|---------------------------------|
| | 3450mg/kg-Mouse | Ethyl alcohol |
| | 1650mg/kg-Cat、 | Ethylene glycol |
| | 4700mg/kg-Rat | |
| | 3600mg/kg-Mouse | 2-Propanol |
| | >5000mg/kg-Rat | Coloring agent |
| Inhalation LC50 | 6820mg/m3-4H-Rat | Titanium dioxide |
| | 20000ppm-10H-Rat | Ethyl alcohol |
| | 11100ppm-4H-Mouse | 2-Propanol |
| Skin LD50 | 9530uL/kg-Rabbit | Ethylene glycol |
| | 12800mg/kg-Rabbit | 2-Propanol |
| Local effects | Irritant;inhalation, skin, eye | Ethyl alcohol / Ethylene glycol |

L 2-Propanol Irritant; inhalation, eye

Chronic toxicity and long term toxicity

The liquid defats the skin. The substance may have effects on the upper respiratory tract and central nervous system, resulting in irritation, headache, fatigue and lack of concentration.

Ethyl alcohol

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

The liquid defats the skin.

2-Propanol

Signs and Symptoms of overexposure and aggravated by exposure

| Inhalation | irritation,cough | Titanium dioxide / Ethyl alcohol |
|------------------|----------------------------------|----------------------------------|
| IIIIaaaioii | | Ethylene glycol |
| | headache,nausea | Resin |
| | irritation,nausea | 2-Propanol |
| | irritation | Coloring agent |
| Skin contact | irritation | Resin |
| | irritation,dry | Ethyl alcohol / Ethylene glycol |
| | irritation, absorption | 2-Propanol |
| Eye contact | irritation,redness | Titanium dioxide / Ethyl alcohol |
| - | | Ethylene glycol |
| | irritation | Resin / Coloring agent |
| | irritation,pain | 2-Propanol |
| Ingestion | physiologically inert,intestinal | Titanium dioxide |
| | obstruction | |
| | digestive discomfort | Resin |
| | rash,vomiting | Ethyl alcohol |
| | nausea,vomiting | Ethylene glycol |
| | nausea,stomach pain | 2-Propanol |
| | gastric disturbances | Coloring agent |
| Specific effects | IARC Group 2B | Titanium dioxide |
| | IARC Group 3 | 2-Propanol |

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 : 960820

15. REGULATORY INFORMATION

Regulations (Information of components)

Hazardous chemicals (OSHA HCS)

: Titanium dioxide / Ethyl alcohol / Ethylene glycol / 2-Propanol

EU labeling : Not restricted.

CANADA Hazardous Products Act - Ingredient Disclosure List

0.1%over Ethyl alcohol

1%over Ethylene glycol / 2-Propanol

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: (March 7, 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: PC-5M Brown [POSCA]

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

BAN : 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 : August 24, 2001 Revision Date : March 7, 2014

File No. : 010255A_Aus Rev. 3.6.07.05

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 | EINECS No. | Concentration range (wt%) |
|--------------------------|------------|------------|------------|---------------------------|
| Water | 7732-18-5 | Registered | 2317912 | 50- 80 |
| Titanium dioxide | 13463-67-7 | Registered | 2366755 | 10- 30 |
| Resins | Registered | Registered | Registered | < 10 |
| Coloring agents | Registered | Registered | Registered | < 10 |
| Ethylene glycol | 107-21-1 | Registered | 2034733 | < 10 |
| Ethyl alcohol | 64-17-5 | Registered | 2005786 | < 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 3.8g]

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.

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.

3/5

Revision Date: March

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures : Not required.

Control parameters (Information of components.)

| OSHA | 15mg/m3 TWA (Total dust) 5mg/m3(Respirable fraction), 15mg/m3(Total dust) [Nuisance Dust] | Titanium dioxide Coloring agent |
|-------|---|------------------------------------|
| | 1000ppm TWA | Ethyl alcohol |
| ACGIH | 10mg/m3 TWA | Titanium dioxide / |
| | | Coloring agent |
| | 100mg/m3 ceiling (particulate)(aerosol) | Ethylene glycol |
| | 1000ppm TWA | Ethyl alcohol |
| EC | 6mg/m3 | Titanium dioxide |
| | 52mg/m3(20ppm) TWA(skin), 104mg/m3(40ppm) STEL(skin) | Ethylene glycol |
| | 1000ppm | Ethyl alcohol |

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

]: Information of components.

Physical state and form : Liquid. Color : Brown. Odor : Faint odor. Нα : about 8.3

Boiling point : Not available. [Water/ 100 C]

Melting point :<-10 C

Flash point : Not applicable. [Ethyl alcohol/ 12.2 C(CC)] Auto ignition temperature : Not applicable. [Ethyl alcohol/ 363 C]

Explosion limits : Not applicable.

[Lower flammable limit / 3.28%, Upper flammable limit / 19.0% < Ethyl alcohol>]

Density : about 1.1 / 25 C

Vapor density (air=1) : Not available. [Ethyl alcohol/ 1.59]

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 | >24000mg/kg-Rat | Titanium dioxide |
|-----------------|------------------|------------------|
| | >5000mg/kg-Rat | Coloring agent |
| | 1650mg/kg-Cat、 | Ethylene glycol |
| | 4700mg/kg-Rat | |
| | 3450mg/kg-Mouse | Ethyl alcohol |
| Inhalation LC50 | 6820mg/m3-4H-Rat | Titanium dioxide |
| | 20000ppm-10H-Rat | Ethyl alcohol |
| Skin LD50 | 9530uL/kg-Rabbit | Ethylene glycol |

Local effects Irritant;inhalation, skin, eye Ethylene glycol / Ethyl alcohol

Chronic toxicity and long term toxicity

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

The liquid defats the skin. The substance may have effects on the upper respiratory tract and central nervous system, resulting in irritation, headache, fatigue and lack of concentration.

Ethylene glycol

Ethyl alcohol

Signs and Symptoms of overexposure and aggravated by exposure

| Inhalation | irritation,cough | Titanium dioxide / Ethylene glycol Ethyl alcohol |
|------------------|----------------------------------|---|
| | headache,nausea | Resin |
| | irritation | Coloring agent |
| Skin contact | irritation | Resin |
| | redness,swelling | Coloring agent |
| | irritation,dry | Ethylene glycol / Ethyl alcohol |
| Eye contact | irritation,redness | Titanium dioxide / Ethylene glycol |
| • | | Ethyl alcohol |
| | irritation | Resin / Coloring agent |
| Ingestion | physiologically inert,intestinal | Titanium dioxide |
| | obstruction | |
| | digestive discomfort | Resin |
| | nausea,vomiting | Coloring agent / Ethylene glycol |
| | rash,vomiting | Ethyl alcohol |
| 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 : 960820

5/5

15. REGULATORY INFORMATION

Regulations (Information of components)

Hazardous chemicals (OSHA HCS) : Titanium dioxide / Ethylene glycol / Ethyl alcohol

EU labeling : Not restricted.

CANADA Hazardous Products Act - Ingredient Disclosure List

1%over Ethylene glycol 0.1%over Ethyl alcohol

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: (March 7, 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: PC-5M Grey [POSCA]

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

BAN : 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 : August 24, 2001 Revision Date : March 7, 2014

File No. : 010256A Aus Rev. 3.6.07.05

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 | EINECS No. | Concentration range (wt%) |
|--------------------------|------------|------------|------------|---------------------------|
| Water | 7732-18-5 | Registered | 2317912 | 50- 80 |
| Titanium dioxide | 13463-67-7 | Registered | 2366755 | 10- 30 |
| Resins | Registered | Registered | Registered | < 10 |
| Ethyl alcohol | 64-17-5 | Registered | 2005786 | < 10 |
| Ethylene glycol | 107-21-1 | Registered | 2034733 | < 10 |
| 2-Propanol | 67-63-0 | Registered | 2006617 | < 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.)

Creation Date: August 24, 2001 2/5

Revision Date : March 7, 2014

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 4.3g]

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.

: 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.

: Avoid direct sunlight. Storage condition

: 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.)

| o- p | · · · · · · · · · · · · · · · · · · · | |
|-------|---|------------------|
| OSHA | 15mg/m3 TWA (Total dust) | Titanium dioxide |
| | 1000ppm TWA | Ethyl alcohol |
| | 400 ppm TWA, 500ppm STEL | 2-Propanol |
| | 3.5mg/m3 TWA | Carbon Black |
| ACGIH | 10mg/m3 TWA | Titanium dioxide |
| | 1000ppm TWA | Ethyl alcohol |
| | 100mg/m3 ceiling (particulate)(aerosol) | Ethylene glycol |
| | 200ppm TWA, 400ppm STEL | 2-Propanol |
| | 3.5mg/m3 TWA | Carbon Black |
| EC | 6mg/m3 | Titanium dioxide |
| | 1000ppm | Ethyl alcohol |
| | 52mg/m3(20ppm) TWA(skin), 104mg/m3(40ppm) STEL(skin) | Ethylene glycol |
| | 3.5mg/m3 TWA | Carbon Black |

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

]: Information of components.

Physical state and form : Liquid. Color : Grev. Odor : Faint odor. pН : about 8.5

Boiling point : Not available. [Water/ 100 C]

Melting point :<-10 C

Flash point : Not applicable. [2-Propanol/ 11.7 C] Auto ignition temperature : Not applicable. [Ethyl alcohol/ 363 C]

Explosion limits : Not applicable.

[Lower flammable limit / 2.0%, Upper flammable limit / 12.7% <2-Propanol>]

Density : about 1.3 / 25 C

Vapor density (air=1) : Not available. [2-Propanol/ 2.07-2.10]

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.

Creation Date: August 24, 2001

4/5

Revision Date: March 7, 2014

11.TOXICOLOGICAL INFORMATION

(Information of components)

| A . | |
|--------|----------|
| Acute | toxicity |
| ricate | UOMICIU |

| Tioute tomicity | | |
|-----------------|--------------------------------|---------------------------------|
| Ingestion LD50 | >24000mg/kg-Rat | Titanium dioxide |
| | 3450mg/kg-Mouse | Ethyl alcohol |
| | 1650mg/kg-Cat、 | Ethylene glycol |
| | 4700mg/kg-Rat | |
| | 3600mg/kg-Mouse | 2-Propanol |
| <u> </u> | >10000mg/kg-Rat | Carbon Black |
| Inhalation LC50 | 6820mg/m3-4H-Rat | Titanium dioxide |
| | 20000ppm-10H-Rat | Ethyl alcohol |
| | 11100ppm-4H-Mouse | 2-Propanol |
| Skin LD50 | 9530uL/kg-Rabbit | Ethylene glycol |
| | 12800mg/kg-Rabbit | 2-Propanol |
| | >3000mg/kg-Rabbit | Carbon Black |
| Local effects | Irritant;inhalation, skin, eye | Ethyl alcohol / Ethylene glycol |
| | Irritant;inhalation, eye | 2-Propanol |
| | Irritant;inhalation, skin | Carbon Black |

Chronic toxicity and long term toxicity

The liquid defats the skin. The substance may have effects on the upper respiratory tract and central nervous system, resulting in irritation, headache, fatigue and lack of concentration.

Ethyl alcohol

The substance may have effects on the central nervous

system, resulting in abnormal eye movements (nystagmus). The liquid defats the skin.

Lungs may be affected by repeated or prolonged exposure at very high concentrations. Respiratory disorders.

Ethylene glycol

2-Propanol Carbon Black

Signs and Symptoms of overexposure and aggravated by exposure

| Inhalation | irritation,cough | Titanium dioxide / Ethyl alcohol |
|------------------|-----------------------------------|----------------------------------|
| | | Ethylene glycol |
| | headache,nausea | Resin |
| | irritation,nausea | 2-Propanol |
| | irritation | Carbon Black |
| Skin contact | irritation | Resin / Carbon Black |
| | irritation,dry | Ethyl alcohol / Ethylene glycol |
| | irritation, absorption | 2-Propanol |
| Eye contact | irritation,redness | Titanium dioxide / Ethyl alcohol |
| · | | Ethylene glycol |
| | irritation | Resin |
| | irritation,pain | 2-Propanol |
| | mechanical | Carbon Black |
| | irritation, discoloration of lids | |
| Ingestion | physiologically inert,intestinal | Titanium dioxide |
| C | obstruction | |
| | digestive discomfort | Resin |
| | rash,vomiting | Ethyl alcohol |
| | nausea, vomiting | Ethylene glycol |
| | nausea,stomach pain | 2-Propanol |
| Specific effects | IARC Group 2B | Titanium dioxide / Carbon Black |
| _ | IARC Group 3 | 2-Propanol |

-PC-5M_Grey-

5/5

Revision Date: March 7, 2014

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 : 960820

15. REGULATORY INFORMATION

Regulations (Information of components)

Hazardous chemicals (OSHA HCS)

: Titanium dioxide / Ethyl alcohol / Ethylene glycol / 2-Propanol / Carbon Black

EU labeling : Not restricted.

CANADA Hazardous Products Act - Ingredient Disclosure List

0.1%over Ethyl alcohol

1%over Ethylene glycol / 2-Propanol / 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: (March 7, 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: PC-5M White [POSCA]

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

BAN : 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 : August 24, 2001 Revision Date : March 7, 2014

File No. : 010257A_Aus Rev. 3.6.07.05

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 | EINECS No. | Concentration range (wt%) |
|--------------------------|------------|------------|------------|---------------------------|
| Water | 7732-18-5 | Registered | 2317912 | 50- 80 |
| Titanium dioxide | 13463-67-7 | Registered | 2366755 | 10- 30 |
| Resins | Registered | Registered | Registered | < 10 |
| Ethyl alcohol | 64-17-5 | Registered | 2005786 | < 10 |
| Ethylene glycol | 107-21-1 | Registered | 2034733 | < 10 |
| 2-Propanol | 67-63-0 | Registered | 2006617 | < 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.)

2/5 Creation Date: August 24, 2001 Revision Date: March 7, 2014

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 4.3g]

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.

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/m3 TWA (Total dust) | Titanium dioxide |
|---------------|---|------------------|
| | 1000ppm TWA | Ethyl alcohol |
| | 400 ppm TWA, 500ppm STEL | 2-Propanol |
| ACGIH | 10mg/m3 TWA | Titanium dioxide |
| | 1000ppm TWA | Ethyl alcohol |
| | 100mg/m3 ceiling (particulate)(aerosol) | Ethylene glycol |
| | 200ppm TWA, 400ppm STEL | 2-Propanol |
| \mathbf{EC} | 6mg/m3 | Titanium dioxide |
| | 1000ppm | Ethyl alcohol |
| | 52mg/m3(20ppm) TWA(skin), | Ethylene glycol |
| | 104mg/m3(40ppm) STEL(skin) | |

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

ſ]: Information of components.

Physical state and form : Liquid. Color : White. Odor : Faint odor. pН : about 8.1

Boiling point : Not available. [Water/ 100 C]

Melting point : <-10 C

Flash point : Not applicable. [2-Propanol/ 11.7 C] Auto ignition temperature : Not applicable. [Ethyl alcohol/ 363 C]

Explosion limits : Not applicable.

[Lower flammable limit / 2.0%, Upper flammable limit / 12.7% <2-Propanol>]

Density : about 1.3 / 25 C

Vapor density (air=1) : Not available. [2-Propanol/ 2.07-2.10]

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 | >24000mg/kg-Rat | Titanium dioxide |
|-----------------|-----------------------------|----------------------------------|
| | 3450mg/kg-Mouse | Ethyl alcohol |
| | 1650mg/kg-Cat、 | Ethylene glycol |
| | 4700mg/kg-Rat | |
| | 3600mg/kg-Mouse | 2-Propanol |
| Inhalation LC50 | 6820mg/m3-4H-Rat | Titanium dioxide |
| | 20000ppm-10H-Rat | Ethyl alcohol |
| | 11100ppm-4H-Mouse | 2-Propanol |
| Skin LD50 | 9530uL/kg-Rabbit | Ethylene glycol |
| | 12800mg/kg-Rabbit | 2-Propanol |
| oaal offoats | Invitantinhalation alin and | Etherlolookol / Etherloro alreal |

Local effects Irritant;inhalation, skin, eye Irritant; inhalation, eye

Ethyl alcohol / Ethylene glycol

2-Propanol

Chronic toxicity and long term toxicity

The liquid defats the skin. The substance may have effects on the upper respiratory tract and central nervous system, resulting in irritation, headache, fatigue and lack of concentration.

Ethyl alcohol

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

The liquid defats the skin.

2-Propanol

Signs and Symptoms of overexposure and aggravated by exposure

| Eigns and Eymptom | o of overexposure and aggravated | by exposure |
|-------------------|----------------------------------|----------------------------------|
| Inhalation | irritation,cough | Titanium dioxide / Ethyl alcohol |
| | | Ethylene glycol |
| | headache,nausea | Resin |
| | irritation,nausea | 2-Propanol |
| Skin contact | irritation | Resin |
| | irritation,dry | Ethyl alcohol / Ethylene glycol |
| | irritation, absorption | 2-Propanol |
| Eye contact | irritation,redness | Titanium dioxide / Ethyl alcohol |
| - | | Ethylene glycol |
| | irritation | Resin |
| | irritation,pain | 2-Propanol |
| Ingestion | physiologically inert,intestinal | Titanium dioxide |
| _ | obstruction | |
| | digestive discomfort | Resin |
| | rash, vomiting | Ethyl alcohol |
| | nausea, vomiting | Ethylene glycol |
| | nausea,stomach pain | 2-Propanol |
| Specific effects | IARC Group 2B | Titanium dioxide |
| - | IARC Group 3 | 2-Propanol |
| | | |

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 : 960820

15. REGULATORY INFORMATION

Regulations (Information of components)

Hazardous chemicals (OSHA HCS)

: Titanium dioxide / Ethyl alcohol / Ethylene glycol / 2-Propanol

EU labeling : Not restricted.

CANADA Hazardous Products Act - Ingredient Disclosure List

0.1%over Ethyl alcohol

1%over Ethylene glycol / 2-Propanol

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: (March 7, 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: PC-5M Gold [POSCA]

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

BAN : 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 : August 24, 2001 Revision Date : March 7, 2014

File No. : 010258A Aus Rev. 3.6.02.06

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 | EINECS No. | Concentration range (wt%) |
|--------------------------|------------|------------|------------|---------------------------|
| Water | 7732-18-5 | Registered | 2317912 | 50- 80 |
| Resin | Registered | Registered | Polymer | 10- 30 |
| Aluminum paste | 7429-90-5 | Registered | 2310723 | < 10 |
| Coloring agents | Registered | Registered | Registered | < 10 |
| Ethylene glycol | 107-21-1 | Registered | 2034733 | < 10 |
| Additive | Registered | Registered | Registered | < 10 |
| Petroleum solvents | 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.)

2/5 Creation Date: August 24, 2001 Revision Date: March 7, 2014

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 3.7g]

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.

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.

3/5

Revision Date: March

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures : Not required.

Control parameters (Information of components.)

| OSHA | 15mg/m3(total dust), 5mg/m3(respirable fraction) | Aluminum paste |
|-------|---|--------------------|
| | 15mg/m3 PEL (Nuisance Dust) | Coloring agent |
| | 500ppm | Petroleum solvents |
| ACGIH | 10mg/m3 TWA (metal particulate) | Aluminum paste |
| | 10mg/m3 TWA(Nuisance Dust) | Coloring agent |
| | 100mg/m3 ceiling (particulate)(aerosol) | Ethylene glycol |
| | 100ppm | Petroleum solvents |
| EC | 52mg/m3(20ppm) TWA(skin), | Ethylene glycol |
| | 104mg/m3(40ppm) STEL(skin) | |

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

]: Information of components.

Physical state and form : Liquid. Color : Gold. Odor : Faint odor. рН : about 8.2

Boiling point : Not available. [Water/ 100 C]

Melting point :<-10 C

Flash point : Not applicable. [Petroleum solvents/ 40 C] Auto ignition temperature : Not applicable. [Petroleum solvents/ 245 C]

Explosion limits : Not applicable.

[Lower flammable limit / 1%, Upper flammable limit / 7% < Petroleum solvents >]

Density : about 1.1 / 25 C

Vapor density (air=1) : Not available. [Petroleum solvents/ 5.3]

Solubility in water : Soluble. Evaporation rate : Not available. Volatile : 70-73%

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 | Aluminum paste / Coloring agent |
|-----------------|---------------------------------|---------------------------------|
| | 1650mg/kg-Cat、 | Ethylene glycol |
| | 4700mg/kg-Rat | |
| | >2000mg/kg-Rat | Additive |
| | 28000mg/kg-Rat | Petroleum solvents |
| Inhalation LC50 | Not available. | |
| Skin LD50 | 9530uL/kg-Rabbit | Ethylene glycol |
| | >2000mg/kg-Rabbit | Additive |
| | 28000m g /kg-Rabbit | Petroleum solvents |
| Local effects | Irritant;inhalation | Aluminum paste |
| | Irritant; inhalation, skin, eye | Ethylene glycol |

Chronic toxicity and long term toxicity

Lungs may be affected by repeated or prolonged exposure to dust particles. The substance may have effects on the nervous system, resulting in impaired functions.

Aluminum paste

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

| 0 1 | | |
|----------------|---------------------------------|----------------------------------|
| Inhalation | irritation,cough | Aluminum paste / Ethylene glyco |
| | irritation | Coloring agent |
| | irritation,nausea | Petroleum solvents |
| Skin contact | irritation, itching | Aluminum paste |
| | allergic contact dermatitis | Coloring agent |
| | irritation,dry | Ethylene glycol |
| | irritation | Additive |
| | irritation,headache | Petroleum solvents |
| Eye contact | irritation,eye damage | Aluminum paste |
| | irritation,redness | Ethylene glycol |
| | irritation | Additive |
| Ingestion | irritation, digestive disorders | Aluminum paste |
| | nausea,vomiting | Coloring agent / Ethylene glycol |
| | irritation,nausea | Petroleum solvents |
| ecific effects | Not available. | |

12. ECOLOGICAL INFORMATION

Not available.

13. DISPOSAL CONSIDERATIONS

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

Contaminated packaging: Not applicable.

14. TRANSPORT INFORMATION

HS Code : 960820

15. REGULATORY INFORMATION

Regulations (Information of components)

Hazardous chemicals (OSHA HCS) : Aluminum paste / Ethylene glycol

EU labeling : Not restricted.

CANADA Hazardous Products Act - Ingredient Disclosure List

1%over Aluminum paste / 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: (March 7, 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: PC-5M Silver [POSCA]

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

BAN : 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 : August 24, 2001 Revision Date : March 7, 2014

File No. : 010259A_Aus Rev. 3.6.01.05

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 | EINECS No. | Concentration range (wt%) |
|--------------------------|------------|------------|------------|---------------------------|
| Water | 7732-18-5 | Registered | 2317912 | 50- 80 |
| Aluminum paste | 7429-90-5 | Registered | 2310723 | 10- 30 |
| Resin | Registered | Registered | Polymer | < 10 |
| Ethylene glycol | 107-21-1 | Registered | 2034733 | < 10 |
| Petroleum solvents | 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.)

2/5 Creation Date: August 24, 2001 Revision Date: March 7, 2014

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 3.6g]

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.

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.

3/5

Revision Date: March 7, 201

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures : Not required.

Control parameters (Information of components.)

| OSHA | 15mg/m3(total dust), 5mg/m3(respirable fraction) | Aluminum paste |
|-------|---|--------------------|
| | 500ppm | Petroleum solvents |
| ACGIH | 10mg/m3 TWA (metal particulate) | Aluminum paste |
| | 100mg/m3 ceiling (particulate)(aerosol) | Ethylene glycol |
| | 100ppm | Petroleum solvents |
| EC | 52mg/m3(20ppm) TWA(skin), | Ethylene glycol |
| | 104mg/m3(40ppm) STEL(skin) | |

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

[]: Information of components.

Physical state and form : Liquid.
Color : Silver.
Odor : Faint odor.
pH : about 8.6

Boiling point : Not available. [Water/ 100 C]

Melting point :<-10 C

Flash point : Not applicable. [Petroleum solvents/ 40 C]
Auto ignition temperature : Not applicable. [Petroleum solvents/ 245 C]

Explosion limits : Not applicable.

[Lower flammable limit / 1%, Upper flammable limit / 7% < Petroleum solvents >]

Density : about 1.1 / 25 C

Vapor density (air=1) : Not available. [Petroleum solvents/ 5.3]

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 | >5000mg/kg-Rat | Aluminum paste |
|-----------------|---------------------------------|--------------------|
| | 1650mg/kg-Cat、 | Ethylene glycol |
| | 4700mg/kg-Rat | |
| | 28000mg/kg-Rat | Petroleum solvents |
| Inhalation LC50 | Not available. | |
| Skin LD50 | 9530uL/kg-Rabbit | Ethylene glycol |
| | $28000 \mathrm{m}$ g /kg-Rabbit | Petroleum solvents |
| Local effects | Irritant; inhalation | Aluminum paste |
| | Irritant;inhalation, skin, eye | Ethylene glycol |

Chronic toxicity and long term toxicity

Lungs may be affected by repeated or prolonged exposure to dust particles. The substance may have effects on the nervous system, resulting in impaired functions.

Aluminum paste

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 | Aluminum paste / Ethylene glycol |
|------------------|---------------------------------|----------------------------------|
| | irritation,nausea | Petroleum solvents |
| Skin contact | irritation, itching | Aluminum paste |
| | irritation,dry | Ethylene glycol |
| | irritation,headache | Petroleum solvents |
| | irritation | Additive |
| Eye contact | irritation,eye damage | Aluminum paste |
| | irritation,redness | Ethylene glycol |
| | irritation | Additive |
| Ingestion | irritation, digestive disorders | Aluminum paste |
| | nausea, vomiting | Ethylene glycol |
| | irritation,nausea | Petroleum solvents |
| 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 : 960820

15. REGULATORY INFORMATION

Regulations (Information of components)

Hazardous chemicals (OSHA HCS) : Aluminum paste / Ethylene glycol

EU labeling : Not restricted.

CANADA Hazardous Products Act - Ingredient Disclosure List

1%over Aluminum paste / 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: (March 7, 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.