

19994-1019

MSDS for #19994 - UNI POSCA MARKER

Page 1 of 5

PC-1M Black

MITSUBISHI PENCIL CO., LTD.

(Date of issue): 2014/09/18

SAFETY DATA SHEET

1. Product and Company Identification

[Product name] PC-1M Black
 [File No.] 100010E
 [Date of issue] 2014/09/18
 [Details of Manufacture]

Manufacture's name: MITSUBISHI PENCIL CO., LTD.
 Address: 5-23-37, HIGASHIOHI, SHINAGAWA, TOKYO, JAPAN
 Telephone number: 03-3458-8281 telefax number: 03-3460-0363
 (Only office hour are available)

2. Hazards identification

Information of this section is about the ink.

[Classification of the substance or mixture]

PHYSICO-CHEMICAL HAZARDS

Not applicable.

HEALTH HAZARDS

Acute toxicity(oral) : Not classified
 Acute toxicity(skin) : Not classified
 Acute toxicity(inhalation steam) : Not classified
 Skin corrosion/irritation : Not classified
 Serious eye damage/Eye Irritation : Not classified
 Respiratory sensitizer : Classification not possible
 Skin sensitizer : Classification not possible
 Germ cell mutagenicity : Category1
 Carcinogenicity : Category2
 Toxic to reproduction : Category1
 Specific target organ systemic toxicity(single exposure) : Category1
 Specific target organ systemic toxicity(repeated exposure) : Category1
 Aspiration hazard : Not classified

ENVIRONMENTAL HAZARDS

Hazard to the Aquatic Environment (Acute) : Not classified
 Hazard to the Aquatic Environment (Chronic) : Classification not possible

[Label elements]

Pictogram



Signal Word : Danger
 Hazard Statement : May cause genetic defects
 : Suspected of causing cancer
 : May damage fertility or the unborn child
 : Causes damage to organs
 : Causes damage to organs through prolonged or repeated exposure
 Precautionary Statement : Do not breathe dust/vapours etc..
 : Do not eat, drink or smoke when using this product.
 : Use personal protective equipment as required.(Refer to Section 8)

Item Numbers: 19994-2027

Page 1 of 5

Item Numbers: 19994-1019

Page 1 of 85

MSDS for #19994 - UNI POSCA MARKER

Page 2 of 5

PC-1M Black

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2014/09/18

- : Get medical advice/attention if you feel unwell.
- : IF exposed or concerned: Get medical advice/attention.
- : Dispose in accordance with all current regulations and standards.

[Other hazards]

No information available.

3. Composition/information on ingredients

[The chemical product is a substance or a mixture]	[Component parts]	Mixture
[Chemical nature]	Cas No.	Ink[Ink quantity of product :about 2.4g]
Chemical name		Concentration range(wt%)
Water	7732-18-5	50-80
1,2-Ethanediol	107-21-1	<10
Carbon black	1333-86-4	<10
Resin	Trade secret	<10

4. First aid measures

[Description of first aid measures]

- Eye contact** : Flush eyes with plenty of water for at least 15 minutes.
- : Take off the contact lens if possible
- : Consult medical advice depending on the symptoms.
- Skin contact** : Wash skin.
- : Consult medical advice depending on the symptoms.
- : Thoroughly clean and dry contaminated clothing and shoes before reuse.
- Ingestion** : Rinse mouth, give plenty of water to dilute. No specific intervention is indicated as compound is not likely to be hazardous by ingestion.
- : Consult medical advice depending on the symptoms.
- Inhalation** : Due to its low vapor pressure inhalation is unlikely at room temperature.
- : If not feeling well, move to an area of fresh air and rest.
- : Consult medical advice depending on the symptoms.

[Most important symptoms and effects, both acute and delayed]

No information available.

[Indication of any immediate medical attention and special treatment needed]

No information available.

5. Firefighting measures

[Extinguishing media]

Regular dry chemical, carbon dioxide, water, regular foam

[Special hazards arising from the substance or mixture]

No further relevant information available.

[Advice for firefighters]

Stay upwind and keep out of low areas and avoid inhalation of material or combustion by-products.

Wear suitable protective equipment.

6. Accidental release measures

[Personal precautions, protective equipment and emergency procedures]

Rope off the area to contain the leak and prohibit entrance except for authorized persons.

Wear appropriate protection gear.

Do not work in windward direction.

PC-1M Black

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2014/09/18

- [Environmental precautions]** Collect leaked material in empty container after leading outflow to a safe area containing earth and sand.
Do not allow leaked material to pollute rivers, lakes, etc.
- [Methods and material for containment and cleaning up]**
Wipe off by dry cloth and wash with water.
Dispose of pollution or waste in accordance with national, state and local regulations.
- [Reference to other sections]** No information available.

7. Handling and storage**[Precautions for safe handling]**

Do not lick or swallow the ink.
Avoid contact with skin and eyes.
Recap after use (if there is a cap), and keep out of the reach of infants.

[Conditions for safe storage, including any incompatibilities]

Keep away from oxidizing materials, ignition sources, high temperature and direct sunlight.

Recommended temperature : 0-40°C

[Specific end use(s)]

No information available.

8. Exposure controls/personal protection**[Control parameters]**

Chemical name	OSHA	ACGIH
Carbon black	-	(TWA)3.5mg/m3
1,2-Ethanediol	-	(STEL)100mg/m3

[Exposure controls]

Protective equipment	: Not required.
Respiratory protection	: Not required.
Hands protection	: Not required.
Eye protection	: Not required.
Skin protection	: Not required.

9. Physical and chemical properties**[Information on basic physical and chemical properties]**

Color	: Black
State	: Liquid
Odor	: slight odor
pH	: about 8.2
Boiling point	: No information available.(Water 100°C)
Melting point	: No information available.
Flash point	: No information available.
Autoignition temperature	: No information available.
Explosion limits	: No information available.
Vapor density(air=1)	: No information available.
Density	: about 1.1
Solubility in water	: soluble
Evaporation rate	: No information available.

PC-1M Black

MITSUBISHI PENCIL CO., LTD.

[Date of issue]:2014/09/18

Volatile : >80%
 [Other information] No information available.

10. Stability and reactivity

[Chemical stability] This mixture is stable in normal temperature, a condition of the pressure.
 [Reactivity] No data available.
 [Conditions to avoid] Avoid heat, flames, sparks and other sources of ignition.
 Avoid direct sunlight and high temperature.
 [Incompatible materials] No information available.
 [Hazardous decomposition products] No information available.
 [Possibility of hazardous reactions] No information available.

11. Toxicological information

[Information on toxicological effects]

Acute toxicity(oral)
 Not classified : >2000 mg/kg (estimate value)

Acute toxicity(skin)
 Not classified : >2000 mg/kg (estimate value)

Acute toxicity(inhalation:vapours)
 Not classified : >20 mg/L (estimate value)

Skin corrosion/irritation
 No information available.

Serious eye damage/Eye Irritation
 No information available.

Respiratory sensitizer
 No information available.

Skin sensitizer
 No information available.

Germ cell mutagenicity
 Additive : Category1B

Carcinogenicity
 Carbon black : Category2

Toxic to reproduction
 Additive : Category1A

Specific target organ systemic toxicity(single exposure)
 1,2-Ethandiol : Category1

Specific target organ systemic toxicity(repeated exposure)
 Carbon black : Category1
 1,2-Ethandiol : Category1

PC-1M Black

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2014/09/18

Aspiration hazard
No information available.

Hazard to the Aquatic Environment (Acute)
No information available.

Hazard to the Aquatic Environment (Chronic)
No information available.

12. Ecological information
No information available.

13. Disposal considerations
[Waste treatment methods]
Dispose in accordance with all current regulations and standards.
Do not allow it to flow into the drainages with waste fluid.

14. Transport information
[Environmental hazards] No information available.
[HS Code] 960820
[Special precautions for user] Check the container for any leakage. Load a cargo without a dropping or incurring damage, and take caution against collapse of container.

15. Regulatory information
TSCA : Listed on the TSCA inventory or polymer substance.
[Chemical safety assessment]
Ink or lead are manufactured in accordance with ISO 8124-3 "Safety of Toys - Part 3"

16. Other information

- The information is based on our present knowledge at the date of its publication, and designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.
- This shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

PC-1M White

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2014/09/18

SAFETY DATA SHEET

1. Product and Company Identification

[Product name] PC-1M White
 [File No.] 100059E
 [Date of issue] 2014/09/18
 [Details of Manufacture]

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
 (Only office hour are available.)

2. Hazards identification

Information of this section is about the ink.

[Classification of the substance or mixture]

PHYSICO-CHEMICAL HAZARDS

Not applicable.

HEALTH HAZARDS

Acute toxicity(oral) : Not classified
 Acute toxicity(skin) : Not classified
 Acute toxicity(inhalation steam) : Not classified
 Skin corrosion/irritation : Not classified
 Serious eye damage/Eye Irritation : Category2
 Respiratory sensitizer : Classification not possible
 Skin sensitizer : Classification not possible
 Germ cell mutagenicity : Category1
 Carcinogenicity : Category2
 Toxic to reproduction : Category1
 Specific target organ systemic toxicity(single exposure) : Category1
 Specific target organ systemic toxicity(repeated exposure) : Category1
 Aspiration hazard : Not classified

ENVIRONMENTAL HAZARDS

Hazard to the Aquatic Environment (Acute) : Not classified
 Hazard to the Aquatic Environment (Chronic) : Not classified

[Label elements]

Pictogram



Signal Word

: Danger

Hazard Statement

: Causes serious eye damage
 : May cause genetic defects
 : Suspected of causing cancer
 : May damage fertility or the unborn child
 : Causes damage to organs
 : Causes damage to organs through prolonged or repeated exposure

Precautionary Statement

: Do not breathe dust/vapours etc..
 : Do not eat, drink or smoke when using this product.

MSDS for #19994 - UNI POSCA MARKER

PC-1M White

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2014/09/18

- : Use personal protective equipment as required. (Refer to Section 8)
 - : Get medical advice/attention if you feel unwell.
 - : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - : IF exposed or concerned: Get medical advice/attention.
 - : If eye irritation persists: Get medical advice/attention.
 - : Dispose in accordance with all current regulations and standards.
- No information available.

[Other hazards]

3. Composition/information on ingredients

[The chemical product is a substance or a mixture] [Chemical nature]	[Component parts]	Mixture Ink [Ink quantity of product :about 2.8g]
Chemical name	Cas No.	Concentration range(wt%)
Water	7732-18-5	50-80
Titanium dioxide	13463-67-7	10-30
Additive	Trade secret	10-30
1,2-Ethanediol	107-21-1	<10
Coloring agent	Trade secret	<10
Resin	Trade secret	<10

4. First aid measures

[Description of first aid measures]

- Eye contact**
- : Flush eyes with plenty of water for at least 15 minutes.
 - : Take off the contact lens if possible
 - : Consult medical advice depending on the symptoms.
- Skin contact**
- : Wash skin.
 - : Consult medical advice depending on the symptoms.
 - : Thoroughly clean and dry contaminated clothing and shoes before reuse.
- Ingestion**
- : Rinse mouth, give plenty of water to dilute. No specific intervention is indicated as compound is not likely to be hazardous by ingestion.
 - : Consult medical advice depending on the symptoms.
- Inhalation**
- : Due to its low vapor pressure inhalation is unlikely at room temperature.
 - : If not feeling well, move to an area of fresh air and rest.
 - : Consult medical advice depending on the symptoms.

[Most important symptoms and effects, both acute and delayed]

No information available.

[Indication of any immediate medical attention and special treatment needed]

No information available.

5. Firefighting measures

[Extinguishing media]

Regular dry chemical, carbon dioxide, water, regular foam

[Special hazards arising from the substance or mixture]

No further relevant information available.

[Advice for firefighters]

Stay upwind and keep out of low areas and avoid inhalation of material or combustion by-products.

Wear suitable protective equipment.

PC-1M White

MITSUBISHI PENCIL CO., LTD.

(Date of issue): 2014/09/18

6. Accidental release measures**[Personal precautions, protective equipment and emergency procedures]**

Rope off the area to contain the leak and prohibit entrance except for authorized persons.

Wear appropriate protection gear.

Do not work in windward direction.

[Environmental precautions]

Collect leaked material in empty container after leading outflow to a safe area containing earth and sand.

Do not allow leaked material to pollute rivers, lakes, etc.

[Methods and material for containment and cleaning up]

Wipe off by dry cloth and wash with water.

Dispose of pollution or waste in accordance with national, state and local regulations.

[Reference to other sections]

No information available.

7. Handling and storage**[Precautions for safe handling]**

Do not lick or swallow the ink.

Avoid contact with skin and eyes.

Recap after use (if there is a cap), and keep out of the reach of infants.

[Conditions for safe storage, including any incompatibilities]

Keep away from oxidizing materials, ignition sources, high temperature and direct sunlight.

Recommended temperature : 0-40°C

[Specific end use(s)]

No information available.

8. Exposure controls/personal protection**[Control parameters]**

Chemical name	OSHA	ACGIH
Titanium dioxide	-	(TWA)10mg/m ³
1,2-Ethanedio	-	(STEL)100mg/m ³

[Exposure controls]

Protective equipment	: Not required.
Respiratory protection	: Not required.
Hands protection	: Not required.
Eye protection	: Not required.
Skin protection	: Not required.

9. Physical and chemical properties**[Information on basic physical and chemical properties]**

Color	: White
State	: Liquid
Odor	: slight odor
pH	: about 8.1
Boiling point	: No information available.[Water 100°C]
Melting point	: No information available.

PC-1M White

MITSUBISHI PENCIL CO., LTD.

{Date of issue}: 2014/09/18

Flash point	: No information available.
Autoignition temperature	: No information available.
Explosion limits	: No information available.
Vapor density(air=1)	: No information available.
Density	: about 1.3
Solubility in water	: soluble
Evaporation rate	: No information available.
Volatile	: >80%
[Other information]	No information available.

10. Stability and reactivity

[Chemical stability]

This mixture is stable in normal temperature, a condition of the pressure.

[Reactivity]

No data available.

[Conditions to avoid]

Avoid heat, flames, sparks and other sources of ignition.
Avoid direct sunlight and high temperature.

[Incompatible materials]

No information available.

[Hazardous decomposition products]

No information available.

[Possibility of hazardous reactions]

No information available.

11. Toxicological information

[Information on toxicological effects]

Acute toxicity(oral)

Not classified

: >2000 mg/kg (estimate value)

Acute toxicity(skin)

Not classified

: >2000 mg/kg (estimate value)

Acute toxicity(inhalation:vapours)

Not classified

: >20 mg/L (estimate value)

Skin corrosion/irritation

No information available.

Serious eye damage/Eye Irritation

Titanium dioxide

: Category2B

1,2-Ethanediol

: Category2B

Additive

: Category2A

Respiratory sensitizer

No information available.

Skin sensitizer

No information available.

Germ cell mutagenicity

Additive

: Category1B

Carcinogenicity

Additive

: Category2

PC-1M White

MITSUBISHI PENCIL CO., LTD.

(Date of issue): 2014/09/18

Toxic to reproduction

Additive : Category1A

Specific target organ systemic toxicity(single exposure)

Titanium dioxide : Category3

1,2-Ethenediol : Category1

Additive : Category1

Specific target organ systemic toxicity(repeated exposure)

Titanium dioxide : Category1

1,2-Ethenediol : Category1

Additive : Category1

Aspiration hazard

No information available.

Hazard to the Aquatic Environment (Acute)

No information available.

Hazard to the Aquatic Environment (Chronic)

No information available.

12. Ecological information

No information available.

13. Disposal considerations

[Waste treatment methods]

Dispose in accordance with all current regulations and standards.

Do not allow it to flow into the drainages with waste fluid.

14. Transport information

[Environmental hazards]

No information available.

[HS Code]

960820

[Special precautions for user]

Check the container for any leakage. Load a cargo without a dropping or incurring damage, and take caution against collapse of container.

15. Regulatory information

TSCA : Listed on the TSCA inventory or polymer substance.

[Chemical safety assessment]

Ink or lead are manufactured in accordance with ISO 8124-3 "Safety of Toys - Part 3"

16. Other information

- The information is based on our present knowledge at the date of its publication, and designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.
- This shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

PC-1M Red

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2014/09/18

SAFETY DATA SHEET

1. Product and Company Identification

[Product name] PC-1M Red
 [File No.] 100011E
 [Date of issue] 2014/09/18
 [Details of Manufacture]

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
 (Only office hour are available.)

2. Hazards identification

Information of this section is about the ink.

[Classification of the substance or mixture]

PHYSICO-CHEMICAL HAZARDS

Not applicable.


HEALTH HAZARDS

Acute toxicity(oral) : Not classified
 Acute toxicity(skin) : Not classified
 Acute toxicity(inhalation steam) : Not classified
 Skin corrosion/irritation : Not classified
 Serious eye damage/Eye Irritation : Category2
 Respiratory sensitizer : Classification not possible
 Skin sensitizer : Classification not possible
 Germ cell mutagenicity : Category1
 Carcinogenicity : Category2
 Toxic to reproduction : Category1
 Specific target organ systemic toxicity(single exposure) : Category1
 Specific target organ systemic toxicity(repeated exposure) : Category1
 Aspiration hazard : Not classified

ENVIRONMENTAL HAZARDS

Hazard to the Aquatic Environment (Acute) : Not classified
 Hazard to the Aquatic Environment (Chronic) : Not classified

[Label elements]

Pictogram : 

Signal Word : Danger

Hazard Statement : Causes serious eye damage
 : May cause genetic defects
 : Suspected of causing cancer
 : May damage fertility or the unborn child
 : Causes damage to organs
 : Causes damage to organs through prolonged or repeated exposure

Precautionary Statement

: Do not breathe dust/vapours etc..
 : Do not eat, drink or smoke when using this product.

MSDS for #19994 - UNI POSCA MARKER

Page 2 of 5

PG-1M Red

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2014/09/18

- : Use personal protective equipment as required. (Refer to Section 8)
 - : Get medical advice/attention if you feel unwell.
 - : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - : IF exposed or concerned: Get medical advice/attention.
 - : If eye irritation persists: Get medical advice/attention.
 - : Dispose in accordance with all current regulations and standards.
- No information available.

[Other hazards]

3. Composition/information on ingredients

[The chemical product is a substance or a mixture]	[Component parts]	Mixture Ink [Ink quantity of product : about 2.4g]
[Chemical nature]	Gas No.	Concentration range (wt%)
Chemical name		
Water	7732-18-5	50-80
Titanium dioxide	13483-67-7	10-30
1,2-Ethanediol	107-21-1	<10
Additive	Trade secret	<10
Coloring agent	Trade secret	<10
Resin	Trade secret	<10

4. First aid measures

[Description of first aid measures]

- Eye contact**
- : Flush eyes with plenty of water for at least 15 minutes.
 - : Take off the contact lens if possible
 - : Consult medical advice depending on the symptoms.
- Skin contact**
- : Wash skin.
 - : Consult medical advice depending on the symptoms.
 - : Thoroughly clean and dry contaminated clothing and shoes before reuse.
- Ingestion**
- : Rinse mouth, give plenty of water to dilute. No specific intervention is indicated as compound is not likely to be hazardous by ingestion.
 - : Consult medical advice depending on the symptoms.
- Inhalation**
- : Due to its low vapor pressure inhalation is unlikely at room temperature.
 - : If not feeling well, move to an area of fresh air and rest.
 - : Consult medical advice depending on the symptoms.

[Most important symptoms and effects, both acute and delayed]

No information available.

[Indication of any immediate medical attention and special treatment needed]

No information available.

5. Firefighting measures

[Extinguishing media]

Regular dry chemical, carbon dioxide, water, regular foam

[Special hazards arising from the substance or mixture]

No further relevant information available.

[Advice for firefighters]

Stay upwind and keep out of low areas and avoid inhalation of material or combustion by-products.

Wear suitable protective equipment.

PC-IM Red

MITSUBISHIPENCIL CO., LTD.

[Date of issue]: 2014/09/18

6. Accidental release measures**[Personal precautions, protective equipment and emergency procedures]**

Rope off the area to contain the leak and prohibit entrance except for authorized persons.

Wear appropriate protection gear.

Do not work in windward direction.

[Environmental precautions]

Collect leaked material in empty container after leading outflow to a safe area containing earth and sand.

Do not allow leaked material to pollute rivers, lakes, etc.

[Methods and material for containment and cleaning up]

Wipe off by dry cloth and wash with water.

Dispose of pollution or waste in accordance with national, state and local regulations.

[Reference to other sections]

No information available.

7. Handling and storage**[Precautions for safe handling]**

Do not lick or swallow the ink.

Avoid contact with skin and eyes.

Recap after use (if there is a cap), and keep out of the reach of infants.

[Conditions for safe storage, including any incompatibilities]

Keep away from oxidizing materials, ignition sources, high temperature and direct sunlight.

Recommended temperature : 0-40°C

[Specific end use(s)]

No information available.

8. Exposure controls/personal protection**[Control parameters]**

Chemical name	OSHA	ACGIH
Titanium dioxide	-	(TWA)10mg/m3
1,2-Ethanediol	-	(STEL)100mg/m3

[Exposure controls]

Protective equipment	: Not required.
Respiratory protection	: Not required.
Hands protection	: Not required.
Eye protection	: Not required.
Skin protection	: Not required.

9. Physical and chemical properties**[Information on basic physical and chemical properties]**

Color	: Red
State	: Liquid
Odor	: slight odor
pH	: about 8.2
Boiling point	: No information available.[Water 100°C]
Melting point	: No information available.

PC-1M Red

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2014/09/18

Flash point	: No information available.
Autoignition temperature	: No information available.
Explosion limits	: No information available.
Vapor density(air=1)	: No information available.
Density	: about 1.1
Solubility in water	: soluble
Evaporation rate	: No information available.
Volatile	: >70%
[Other information]	No information available.

10. Stability and reactivity

[Chemical stability]

This mixture is stable in normal temperature, a condition of the pressure.

[Reactivity]

No data available.

[Conditions to avoid]

Avoid heat, flames, sparks and other sources of ignition.
Avoid direct sunlight and high temperature.

[Incompatible materials]

No information available.

[Hazardous decomposition products]

No information available.

[Possibility of hazardous reactions]

No information available.

11. Toxicological information

[Information on toxicological effects]

Acute toxicity(oral)

Not classified

: >2000 mg/kg (estimate value)

Acute toxicity(skin)

Not classified

: >2000 mg/kg (estimate value)

Acute toxicity(inhalation:vapours)

Not classified

: >20 mg/L (estimate value)

Skin corrosion/irritation

No information available.

Serious eye damage/Eye Irritation

Titanium dioxide

: Category2B

1,2-Ethanediol

: Category2B

Additive

: Category2A

Respiratory sensitizer

No information available.

Skin sensitizer

No information available.

Germ cell mutagenicity

Additive

: Category1B

Carcinogenicity

Additive

: Category2

Item Numbers: 19994-2987

Page 4 of 5
4/5

PC-1M Red

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2014/09/18

Toxic to reproduction
Additive : Category 1A

Specific target organ systemic toxicity(single exposure)
1,2-Ethanediol : Category 1

Specific target organ systemic toxicity(repeated exposure)
Titanium dioxide : Category 1
1,2-Ethanediol : Category 1
Additive : Category 1

Aspiration hazard
 No information available.

Hazard to the Aquatic Environment (Acute)
 No information available.

Hazard to the Aquatic Environment (Chronic)
 No information available.

12. Ecological information
 No information available.

13. Disposal considerations
[Waste treatment methods]
 Dispose in accordance with all current regulations and standards.
 Do not allow it to flow into the drainages with waste fluid.

14. Transport information
[Environmental hazards] No information available.
[HS Code] 980820
[Special precautions for user] Check the container for any leakage. Load a cargo without a dropping or incurring damage, and take caution against collapse of container.

15. Regulatory information
TSCA : Listed on the TSCA inventory or polymer substance.
[Chemical safety assessment]
 Ink or lead are manufactured in accordance with ISO 8124-3 "Safety of Toys - Part 3"

16. Other information

- The information is based on our present knowledge at the date of its publication, and designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.
- This shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

PC-1M Yellow

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2014/09/18

SAFETY DATA SHEET

1. Product and Company Identification

[Product name] PC-1M Yellow
 [File No.] 100038E
 [Date of issue] 2014/09/18
 [Details of Manufacture]

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
 (Only office hour are available.)

2. Hazards identification

Information of this section is about the ink.

[Classification of the substance or mixture]

PHYSICO-CHEMICAL HAZARDS

Not applicable.

HEALTH HAZARDS

Acute toxicity(oral) : Not classified
 Acute toxicity(skin) : Not classified
 Acute toxicity(inhalation steam) : Not classified
 Skin corrosion/irritation : Not classified
 Serious eye damage/Eye Irritation : Category2
 Respiratory sensitizer : Classification not possible
 Skin sensitizer : Classification not possible
 Germ cell mutagenicity : Category1
 Carcinogenicity : Category2
 Toxic to reproduction : Category1
 Specific target organ systemic toxicity(single exposure) : Category1
 Specific target organ systemic toxicity(repeated exposure) : Category1
 Aspiration hazard : Not classified

ENVIRONMENTAL HAZARDS

Hazard to the Aquatic Environment (Acute) : Not classified
 Hazard to the Aquatic Environment (Chronic) : Not classified

[Label elements]

Pictogram



Signal Word

: Danger

Hazard Statement

: Causes serious eye damage
 : May cause genetic defects
 : Suspected of causing cancer
 : May damage fertility or the unborn child
 : Causes damage to organs
 : Causes damage to organs through prolonged or repeated exposure

Precautionary Statement

: Do not breathe dust/vapours etc..
 : Do not eat, drink or smoke when using this product.

MSDS for #19994 - UNI POSCA MARKER

Page 2 of 5

PC-1M Yellow

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2014/09/18

- : Use personal protective equipment as required. (Refer to Section 8)
- : Get medical advice/attention if you feel unwell.
- : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- : IF exposed or concerned: Get medical advice/attention.
- : If eye irritation persists: Get medical advice/attention.
- : Dispose in accordance with all current regulations and standards.

[Other hazards]

No information available.

3. Composition/information on ingredients

[The chemical product is a substance or a mixture]	[Component parts]	Mixture
[Chemical nature]	Cas No.	Ink [Ink quantity of product :about 2.5g]
Chemical name		Concentration range(wt%)
Water	7732-18-5	50-80
1,2-Ethandiol	107-21-1	<10
Ethanol	64-17-5	<10
Titanium dioxide	13463-67-7	<10
Additive	Trade secret	<10
Coloring agent	Trade secret	<10
Resin	Trade secret	<10

4. First aid measures

[Description of first aid measures]

- Eye contact**
 - : Flush eyes with plenty of water for at least 15 minutes.
 - : Take off the contact lens if possible
 - : Consult medical advice depending on the symptoms.
- Skin contact**
 - : Wash skin.
 - : Consult medical advice depending on the symptoms.
 - : Thoroughly clean and dry contaminated clothing and shoes before reuse.
- Ingestion**
 - : Rinse mouth, give plenty of water to dilute. No specific intervention is indicated as compound is not likely to be hazardous by ingestion.
 - : Consult medical advice depending on the symptoms.
- Inhalation**
 - : Due to its low vapor pressure inhalation is unlikely at room temperature.
 - : If not feeling well, move to an area of fresh air and rest.
 - : Consult medical advice depending on the symptoms.

[Most important symptoms and effects, both acute and delayed]

No information available.

[Indication of any immediate medical attention and special treatment needed]

No information available.

5. Firefighting measures

[Extinguishing media]

Regular dry chemical, carbon dioxide, water, regular foam

[Special hazards arising from the substance or mixture]

No further relevant information available.

[Advice for firefighters]

Stay upwind and keep out of low areas and avoid inhalation of material or combustion by-products.

Wear suitable protective equipment.

PC-1M Yellow

MITSUBISHI PENCIL CO., LTD.

(Date of issue): 2014/09/18

6. Accidental release measures**[Personal precautions, protective equipment and emergency procedures]**

Rope off the area to contain the leak and prohibit entrance except for authorized persons.

Wear appropriate protection gear.

Do not work in windward direction.

[Environmental precautions]

Collect leaked material in empty container after leading outflow to a safe area containing earth and sand.

Do not allow leaked material to pollute rivers, lakes, etc.

[Methods and material for containment and cleaning up]

Wipe off by dry cloth and wash with water.

Dispose of pollution or waste in accordance with national, state and local regulations.

[Reference to other sections]

No information available.

7. Handling and storage**[Precautions for safe handling]**

Do not lick or swallow the ink.

Avoid contact with skin and eyes.

Recap after use (if there is a cap), and keep out of the reach of infants.

[Conditions for safe storage, including any incompatibilities]

Keep away from oxidizing materials, ignition sources, high temperature and direct sunlight.

Recommended temperature : 0-40°C

[Specific end use(s)]

No information available.

8. Exposure controls/personal protection**[Control parameters]**

Chemical name	OSHA	ACGIH
Titanium dioxide	-	(TWA)10mg/m3
Ethanol	-	(TWA)1000ppm
1,2-Ethanediol	-	(STEL)100mg/m3

[Exposure controls]

Protective equipment : Not required.

Respiratory protection : Not required.

Hands protection : Not required.

Eye protection : Not required.

Skin protection : Not required.

9. Physical and chemical properties**[Information on basic physical and chemical properties]**

Color	: Yellow
State	: Liquid
Odor	: slight odor
pH	: about 8.2
Boiling point	: No information available. [Water 100°C]

MSDS for #19994 - UNI POSCA MARKER

PO-1M Yellow

MITSUBISHI PENCIL CO., LTD.

[Date of issue]:2014/09/18

Melting point	: No information available.
Flash point	: No information available.
Autoignition temperature	: No information available.
Explosion limits	: No information available.
Vapor density(air=1)	: No information available.
Density	: about 1.1
Solubility in water	: soluble
Evaporation rate	: No information available.
Volatils	: >70%
[Other information]	No information available.

10. Stability and reactivity**[Chemical stability]**

This mixture is stable in normal temperature, a condition of the pressure.

[Reactivity]

No data available.

[Conditions to avoid]

Avoid heat, flames, sparks and other sources of ignition.

Avoid direct sunlight and high temperature.

[Incompatible materials]

No information available.

[Hazardous decomposition products]

No information available.

[Possibility of hazardous reactions]

No information available.

11. Toxicological information**[Information on toxicological effects]****Acute toxicity(oral)**

Not classified

: >2000 mg/kg (estimate value)

Acute toxicity(skin)

Not classified

: >2000 mg/kg (estimate value)

Acute toxicity(inhalation:vapours)

Not classified

: >20 mg/L (estimate value)

Skin corrosion/irritation

No information available.

Serious eye damage/Eye Irritation

Titanium dioxide

: Category2B

Ethanol

: Category2A

1,2-EthanedioI

: Category2B

Respiratory sensitizer

No information available.

Skin sensitizer

No information available.

Germ cell mutagenicity

Ethanol

: Category1B

PC-1M Yellow

MITSUBISHI PENCIL CO., LTD.

(Date of issue): 2014/09/18

Carcinogenicity
Additive : Category2

Toxic to reproduction
Ethanol : Category1A
Additive : Category2

Specific target organ systemic toxicity(single exposure)
1,2-Ethanediol : Category1

Specific target organ systemic toxicity(repeated exposure)
Titanium dioxide : Category1
Ethanol : Category1
1,2-Ethanediol : Category1

Aspiration hazard
No information available.

Hazard to the Aquatic Environment (Acute)
No information available.

Hazard to the Aquatic Environment (Chronic)
No information available.

12. Ecological information
No information available.

13. Disposal considerations
[Waste treatment methods]
Dispose in accordance with all current regulations and standards.
Do not allow it to flow into the drainages with waste fluid.

14. Transport information
[Environmental hazards] No information available.
[HS Code] 960820
[Special precautions for user] Check the container for any leakage. Load a cargo without a dropping or incurring damage, and take caution against collapse of container.

15. Regulatory information
TSCA : Listed on the TSCA inventory or polymer substance.
[Chemical safety assessment]
Ink or lead are manufactured in accordance with ISO 8124-3 "Safety of Toys - Part 3"

16. Other information

- The information is based on our present knowledge at the date of its publication, and designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.
- This shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

PC-1M Blue

MITSUBISHI PENCIL CO., LTD.

(Date of issue): 2014/09/18

SAFETY DATA SHEET

1. Product and Company Identification

[Product name] PC-1M Blue
 [File No.] 100016E
 [Date of issue] 2014/09/18
 [Details of Manufacture]

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
 (Only office hour are available.)

2. Hazards identification

Information of this section is about the ink.

[Classification of the substance or mixture]

PHYSICO-CHEMICAL HAZARDS

Not applicable.

HEALTH HAZARDS

Acute toxicity(oral) : Not classified
 Acute toxicity(skin) : Not classified
 Acute toxicity(inhalation steam) : Not classified
 Skin corrosion/irritation : Not classified
 Serious eye damage/Eye Irritation : Category2
 Respiratory sensitizer : Classification not possible
 Skin sensitizer : Classification not possible
 Germ cell mutagenicity : Category1
 Carcinogenicity : Category2
 Toxic to reproduction : Category1
 Specific target organ systemic toxicity(single exposure) : Category1
 Specific target organ systemic toxicity(repeated exposure) : Category1
 Aspiration hazard : Not classified

ENVIRONMENTAL HAZARDS

Hazard to the Aquatic Environment (Acute) : Not classified
 Hazard to the Aquatic Environment (Chronic) : Not classified

[Label elements]

Pictogram



Signal Word

: Danger

Hazard Statement

: Causes serious eye damage
 : May cause genetic defects
 : Suspected of causing cancer
 : May damage fertility or the unborn child
 : Causes damage to organs
 : Causes damage to organs through prolonged or repeated exposure

Precautionary Statement

: Do not breathe dust/vapours etc..
 : Do not eat, drink or smoke when using this product.

MSDS for #19994 - UNI POSCA MARKER

PC-1M Blue

MITSUBISHI PENCIL CO., LTD.

(Date of issue): 2014/09/18

- : Use personal protective equipment as required. (Refer to Section 8)
 - : Get medical advice/attention if you feel unwell.
 - : **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - : **IF exposed or concerned:** Get medical advice/attention.
 - : **If eye irritation persists:** Get medical advice/attention.
 - : **Dispose in accordance with all current regulations and standards.**
- No information available.

[Other hazards]

3. Composition/information on ingredients

[The chemical product is a substance or a mixture] [Chemical nature]	[Component parts]	Mixture Ink [Ink quantity of product :about 2.5g]
Chemical name	Cas No.	Concentration range(wt%)
Water	7732-18-5	50-80
Titanium dioxide	13463-67-7	10-30
1,2-Ethanediol	107-21-1	<10
Ethanol	64-17-5	<10
Additive	Trade secret	<10
Coloring agent	Trade secret	<10
Resin	Trade secret	<10

4. First aid measures

[Description of first aid measures]

- Eye contact**
- : Flush eyes with plenty of water for at least 15 minutes.
 - : Take off the contact lens if possible
 - : Consult medical advice depending on the symptoms.
- Skin contact**
- : Wash skin.
 - : Consult medical advice depending on the symptoms.
 - : Thoroughly clean and dry contaminated clothing and shoes before reuse.
- Ingestion**
- : Rinse mouth, give plenty of water to dilute. No specific intervention is indicated as compound is not likely to be hazardous by ingestion.
 - : Consult medical advice depending on the symptoms.
- Inhalation**
- : Due to its low vapor pressure inhalation is unlikely at room temperature.
 - : If not feeling well, move to an area of fresh air and rest.
 - : Consult medical advice depending on the symptoms.

[Most important symptoms and effects, both acute and delayed]

No information available.

[Indication of any immediate medical attention and special treatment needed]

No information available.

5. Firefighting measures

[Extinguishing media]

Regular dry chemical, carbon dioxide, water, regular foam

[Special hazards arising from the substance or mixture]

No further relevant information available.

[Advice for firefighters]

Stay upwind and keep out of low areas and avoid inhalation of material or combustion by-products.

Wear suitable protective equipment.

PC-1M Blue

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2014/09/18

6. Accidental release measures**[Personal precautions, protective equipment and emergency procedures]**

Repe off the area to contain the leak and prohibit entrance except for authorized persons.

Wear appropriate protection gear.

Do not work in windward direction.

[Environmental precautions]

Collect leaked material in empty container after leading outflow to a safe area containing earth and sand.

Do not allow leaked material to pollute rivers, lakes, etc.

[Methods and material for containment and cleaning up]

Wipe off by dry cloth and wash with water.

Dispose of pollution or waste in accordance with national, state and local regulations.

[Reference to other sections]

No information available.

7. Handling and storage**[Precautions for safe handling]**

Do not lick or swallow the ink.

Avoid contact with skin and eyes.

Recap after use (if there is a cap), and keep out of the reach of infants.

[Conditions for safe storage, including any incompatibilities]

Keep away from oxidizing materials, ignition sources, high temperature and direct sunlight.

Recommended temperature : 0-40°C

[Specific end use(s)]

No information available.

8. Exposure controls/personal protection**[Control parameters]**

Chemical name	OSHA	ACGIH
Titanium dioxide	-	(TWA)10mg/m3
Ethanol	-	(TWA)1000ppm
1,2-Ethanediol	-	(STEL)100mg/m3

[Exposure controls]

Protective equipment	: Not required.
Respiratory protection	: Not required.
Hands protection	: Not required.
Eye protection	: Not required.
Skin protection	: Not required.

9. Physical and chemical properties**[Information on basic physical and chemical properties]**

Color	: Blue
State	: Liquid
Odor	: slight odor
pH	: about 8.2
Boiling point	: No information available.[Water 100°C]

PC-1M Blue

MITSUBISHI PENCIL CO., LTD.

[Date of Issue]:2014/09/18

Melting point	: No information available.
Flash point	: No information available.
Autoignition temperature	: No information available.
Explosion limits	: No information available.
Vapor density(air=1)	: No information available.
Density	: about 1.1
Solubility in water	: soluble
Evaporation rate	: No information available.
Volatile	: >70%
[Other information]	No information available.

10. Stability and reactivity

[Chemical stability]

This mixture is stable in normal temperature, a condition of the pressure.

[Reactivity]

No data available.

[Conditions to avoid]

Avoid heat, flames, sparks and other sources of ignition.

Avoid direct sunlight and high temperature.

[Incompatible materials]

No information available.

[Hazardous decomposition products]

No information available.

[Possibility of hazardous reactions]

No information available.

11. Toxicological information

[Information on toxicological effects]

Acute toxicity(oral)

Not classified

: >2000 mg/kg (estimate value)

Acute toxicity(skin)

Not classified

: >2000 mg/kg (estimate value)

Acute toxicity(inhalation:vapours)

Not classified

: >20 mg/L (estimate value)

Skin corrosion/irritation

No information available.

Serious eye damage/Eye Irritation

Titanium dioxide

: Category2B

Ethanol

: Category2A

1,2-Ethanediol

: Category2B

Additive

: Category2A

Respiratory sensitizer

No information available.

Skin sensitizer

No information available.

Germ cell mutagenicity

Ethanol

: Category1B

PC-1M Blue

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2014/09/18

Carcinogenicity
Additive : Category2

Toxic to reproduction
Ethanol : Category1A
Additive : Category2

Specific target organ systemic toxicity(single exposure)
1,2-Ethanediol : Category1
Additive : Category1

Specific target organ systemic toxicity(repeated exposure)
Titanium dioxide : Category1
Ethanol : Category1
1,2-Ethanediol : Category1
Additive : Category2

Aspiration hazard
 No information available.

Hazard to the Aquatic Environment (Acute)
 No information available.

Hazard to the Aquatic Environment (Chronic)
 No information available.

12. Ecological information
 No information available.

13. Disposal considerations
[Waste treatment methods]
 Dispose in accordance with all current regulations and standards.
 Do not allow it to flow into the drainages with waste fluid.

14. Transport information
[Environmental hazards] No information available.
[HS Code] 960820
[Special precautions for user] Check the container for any leakage. Load a cargo without a dropping or incurring damage, and take caution against collapse of container.

15. Regulatory information
TSCA : Listed on the TSCA inventory or polymer substance.
[Chemical safety assessment]
 Ink or lead are manufactured in accordance with ISO 8124-3 "Safety of Toys - Part 3"

16. Other information
 • The information is based on our present knowledge at the date of its publication, and designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.

MSDS for #19994 - UNI POSCA MARKER

PO-1M Blue

MTSUBISHI PENCIL CO., LTD.

[Date of Issue]:2014/09/18

- This shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

PC-1M Light blue

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2014/09/18

SAFETY DATA SHEET

1. Product and Company Identification

[Product name] PC-1M Light blue
 [File No.] 100050E
 [Date of issue] 2014/09/18
 [Details of Manufacture]

Manufacture's name: MITSUBISHI PENCIL CO., LTD.
 Address: 5-23-37, HIGASHIOHI, SHINAGAWA, TOKYO, JAPAN
 Telephone number: 03-3458-8281 telefax number: 03-3450-0363
 (Only office hour are available.)

2. Hazards identification

Information of this section is about the ink.
 [Classification of the substance or mixture]

PHYSICO-CHEMICAL HAZARDS

Not applicable.


HEALTH HAZARDS

Acute toxicity(oral) : Not classified
 Acute toxicity(skin) : Not classified
 Acute toxicity(inhalation steam) : Not classified
 Skin corrosion/irritation : Not classified
 Serious eye damage/Eye Irritation : Category2
 Respiratory sensitizer : Classification not possible
 Skin sensitizer : Classification not possible
 Germ cell mutagenicity : Category1
 Carcinogenicity : Category2
 Toxic to reproduction : Category1
 Specific target organ systemic toxicity(single exposure) : Category1
 Specific target organ systemic toxicity(repeated exposure) : Category1
 Aspiration hazard : Not classified

ENVIRONMENTAL HAZARDS

Hazard to the Aquatic Environment (Acute) : Not classified
 Hazard to the Aquatic Environment (Chronic) : Not classified

[Label elements]

Pictogram : 

Signal Word : Danger

Hazard Statement : Causes serious eye damage
 : May cause genetic defects
 : Suspected of causing cancer
 : May damage fertility or the unborn child
 : Causes damage to organs
 : Causes damage to organs through prolonged or repeated exposure

Precautionary Statement

: Do not breathe dust/vapours etc..
 : Do not eat, drink or smoke when using this product.

MSDS for #19994 - UNI POSCA MARKER

Page 2 of 6

PC-1M Light blue

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2014/09/18

- : Use personal protective equipment as required. (Refer to Section 8)
 - : Get medical advice/attention if you feel unwell.
 - : **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - : **IF exposed or concerned:** Get medical advice/attention.
 - : **If eye irritation persists:** Get medical advice/attention.
 - : **Dispose in accordance with all current regulations and standards.**
- [Other hazards]** No information available.

3. Composition/information on ingredients

[The chemical product is a substance or a mixture] [Chemical nature]	[Component parts] [Component parts]	Mixture Ink[Ink quantity of product :about 2.7g] Concentration range(wt%)
Chemical name	Cas No.	
Water	7732-18-5	50-80
Titanium dioxide	13483-67-7	10-30
1,2-Ethanediol	107-21-1	<10
Ethanol	64-17-5	<10
Additive	Trade secret	<10
Coloring agent	Trade secret	<10
Resin	Trade secret	<10

4. First aid measures**[Description of first aid measures]**

- Eye contact**
- : Flush eyes with plenty of water for at least 15 minutes.
 - : Take off the contact lens if possible
 - : Consult medical advice depending on the symptoms.
- Skin contact**
- : Wash skin.
 - : Consult medical advice depending on the symptoms.
 - : Thoroughly clean and dry contaminated clothing and shoes before reuse.
- Ingestion**
- : Rinse mouth, give plenty of water to dilute. No specific intervention is indicated as compound is not likely to be hazardous by ingestion.
 - : Consult medical advice depending on the symptoms.
- Inhalation**
- : Due to its low vapor pressure inhalation is unlikely at room temperature.
 - : If not feeling well, move to an area of fresh air and rest.
 - : Consult medical advice depending on the symptoms.

[Most important symptoms and effects, both acute and delayed]

No information available.

[Indication of any immediate medical attention and special treatment needed]

No information available.

5. Firefighting measures**[Extinguishing media]**

Regular dry chemical, carbon dioxide, water, regular foam

[Special hazards arising from the substance or mixture]

No further relevant information available.

[Advice for firefighters]

Stay upwind and keep out of low areas and avoid inhalation of material or combustion by-products.

Wear suitable protective equipment.

MSDS for #19994 - UNI POSCA MARKER

Page 3 of 6

PC-1M Light blue

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2014/09/18

6. Accidental release measures**[Personal precautions, protective equipment and emergency procedures]**

Rope off the area to contain the leak and prohibit entrance except for authorized persons.

Wear appropriate protection gear.

Do not work in windward direction.

[Environmental precautions]

Collect leaked material in empty container after leading outflow to a safe area containing earth and sand.

Do not allow leaked material to pollute rivers, lakes, etc.

[Methods and material for containment and cleaning up]

Wipe off by dry cloth and wash with water.

Dispose of pollution or waste in accordance with national, state and local regulations.

[Reference to other sections]

No information available.

7. Handling and storage**[Precautions for safe handling]**

Do not lick or swallow the ink.

Avoid contact with skin and eyes.

Recap after use (if there is a cap), and keep out of the reach of infants.

[Conditions for safe storage, including any incompatibilities]

Keep away from oxidizing materials, ignition sources, high temperature and direct sunlight.

Recommended temperature : 0-40°C

[Specific end use(s)]

No information available.

8. Exposure controls/personal protection**[Control parameters]**

Chemical name	OSHA	ACGIH
Titanium dioxide	-	(TWA)10mg/m ³
Ethanol	-	(TWA)1000ppm
1,2-Ethanediol	-	(STEL)100mg/m ³

[Exposure controls]

Protective equipment	: Not required.
Respiratory protection	: Not required.
Hands protection	: Not required.
Eye protection	: Not required.
Skin protection	: Not required.

9. Physical and chemical properties**[Information on basic physical and chemical properties]**

Color	: Light blue
State	: Liquid
Odor	: slight odor
pH	: about 8.4
Boiling point	: No information available.[Water 100°C]

Item Numbers: 19994-5027

Page 3 of 6
3/6

Item Numbers: 19994-1019

Page 29 of 85

MSDS for #19994 - UNI POSCA MARKER

Page 4 of 6

PC-1M Light blue

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2014/09/18

Melting point	: No information available.
Flash point	: No information available.
Autoignition temperature	: No information available.
Explosion limits	: No information available.
Vapor density(alr=1)	: No information available.
Density	: about 1.2
Solubility in water	: soluble
Evaporation rate	: No information available.
Volatile	: >60%
[Other information]	No information available.

10. Stability and reactivity

[Chemical stability]

This mixture is stable in normal temperature, a condition of the pressure.

[Reactivity]

No data available.

[Conditions to avoid]

Avoid heat, flames, sparks and other sources of ignition.
Avoid direct sunlight and high temperature.

[Incompatible materials]

No information available.

[Hazardous decomposition products]

No information available.

[Possibility of hazardous reactions]

No information available.

11. Toxicological information

[Information on toxicological effects]

Acute toxicity(oral)

Not classified : >2000 mg/kg (estimate value)

Acute toxicity(skin)

Not classified : >2000 mg/kg (estimate value)

Acute toxicity(inhalation:vapours)

Not classified : >20 mg/L (estimate value)

Skin corrosion/irritation

No information available.

Serious eye damage/Eye Irritation

Titanium dioxide : Category2B

Ethanol : Category2A

1,2-Ethanediol : Category2B

Additive : Category2A

Respiratory sensitizer

No information available.

Skin sensitizer

No information available.

Germ cell mutagenicity

Ethanol : Category1B

PC-1M Light blue

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2014/09/18

Carcinogenicity
Additive : Category2

Toxic to reproduction
Ethanol : Category1A
Additive : Category2

Specific target organ systemic toxicity(single exposure)
1,2-Ethanediol : Category1
Additive : Category1

Specific target organ systemic toxicity(repeated exposure)
Titanium dioxide : Category1
Ethanol : Category1
1,2-Ethanediol : Category1
Additive : Category2

Aspiration hazard
No information available.

Hazard to the Aquatic Environment (Acute)
No information available.

Hazard to the Aquatic Environment (Chronic)
No information available.

12. Ecological information
No information available.

13. Disposal considerations
[Waste treatment methods]
Dispose in accordance with all current regulations and standards.
Do not allow it to flow into the drainages with waste fluid.

14. Transport information
[Environmental hazards] No information available.
[HS Code] 960820
[Special precautions for user] Check the container for any leakage. Load a cargo without a dropping or incurring damage, and take caution against collapse of container.

15. Regulatory information
TSCA : Listed on the TSCA inventory or polymer substance.
[Chemical safety assessment]
Ink or lead are manufactured in accordance with ISO 8124-3 "Safety of Toys - Part 3"

16. Other information
• The information is based on our present knowledge at the date of its publication, and designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.

PC-1M Light blue

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2014/09/18

- This shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

PC-1M Green

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2014/09/18

SAFETY DATA SHEET

1. Product and Company Identification

[Product name] PC-1M Green
 [File No.] 100019E
 [Date of issue] 2014/09/18
 [Details of Manufacture]

Manufacture's name: MITSUBISHI PENCIL CO., LTD.
 Address: 5-23-37, HIGASHIOHI, SHINAGAWA, TOKYO, JAPAN
 Telephone number: 03-3458-8281 telefax number: 03-3450-0363
 (Only office hour are available.)

2. Hazards identification

Information of this section is about the ink.

[Classification of the substance or mixture]

PHYSICO-CHEMICAL HAZARDS

Not applicable.

HEALTH HAZARDS

Acute toxicity(oral) : Not classified
 Acute toxicity(skin) : Not classified
 Acute toxicity(inhalation steam) : Not classified
 Skin corrosion/irritation : Not classified
 Serious eye damage/Eye Irritation : Category2
 Respiratory sensitizer : Classification not possible
 Skin sensitizer : Classification not possible
 Germ cell mutagenicity : Category1
 Carcinogenicity : Category2
 Toxic to reproduction : Category1
 Specific target organ systemic toxicity(single exposure) : Category1
 Specific target organ systemic toxicity(repeated exposure) : Category1
 Aspiration hazard : Not classified

ENVIRONMENTAL HAZARDS

Hazard to the Aquatic Environment (Acute) : Not classified
 Hazard to the Aquatic Environment (Chronic) : Not classified

[Label elements]

Pictogram



Signal Word

: Danger

Hazard Statement

: Causes serious eye damage
 : May cause genetic defects
 : Suspected of causing cancer
 : May damage fertility or the unborn child
 : Causes damage to organs
 : Causes damage to organs through prolonged or repeated exposure

Precautionary Statement

: Do not breathe dust/vapours etc..
 : Do not eat, drink or smoke when using this product.

MSDS for #19994 - UNI POSCA MARKER

Page 2 of 5

PC-1M Green

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2014/09/18

- : Use personal protective equipment as required.(Refer to Section 8)
- : Get medical advice/attention if you feel unwell.
- : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- : IF exposed or concerned: Get medical advice/attention.
- : If eye irritation persists: Get medical advice/attention.
- : Dispose in accordance with all current regulations and standards.

[Other hazards]

No information available.

3. Composition/information on ingredients

[The chemical product is a substance or a mixture] [Chemical nature]	[Component parts]	Mixture Ink[Ink quantity of product :about 2.5g]
Chemical name	Cas No.	Concentration range(wt%)
Water	7732-18-5	50-80
1,2-Ethanediol	107-21-1	<10
Ethanol	64-17-5	<10
Titanium dioxide	13463-67-7	<10
Additive	Trade secret	<10
Coloring agent	Trade secret	<10
Resin	Trade secret	<10

4. First aid measures

[Description of first aid measures]

- Eye contact** : Flush eyes with plenty of water for at least 15 minutes.
: Take off the contact lens if possible
: Consult medical advice depending on the symptoms.
- Skin contact** : Wash skin.
: Consult medical advice depending on the symptoms.
: Thoroughly clean and dry contaminated clothing and shoes before reuse.
- Ingestion** : Rinse mouth, give plenty of water to dilute. No specific intervention is indicated as compound is not likely to be hazardous by ingestion.
: Consult medical advice depending on the symptoms.
- Inhalation** : Due to its low vapor pressure inhalation is unlikely at room temperature.
: If not feeling well, move to an area of fresh air and rest.
: Consult medical advice depending on the symptoms.

[Most important symptoms and effects, both acute and delayed]

No information available.

[Indication of any immediate medical attention and special treatment needed]

No information available.

5. Firefighting measures

[Extinguishing media]

Regular dry chemical, carbon dioxide, water, regular foam

[Special hazards arising from the substance or mixture]

No further relevant information available.

[Advice for firefighters]

Stay upwind and keep out of low areas and avoid inhalation of material or combustion by-products.

Wear suitable protective equipment.

MSDS for #19994 - UNI POSCA MARKER

Page 3 of 5

PC-1M Green

MITSUBISHI PENCIL CO., LTD.

[Date of issue]:2014/09/18

6. Accidental release measures**[Personal precautions, protective equipment and emergency procedures]**

Stop off the area to contain the leak and prohibit entrance except for authorized persons.

Wear appropriate protection gear.

Do not work in windward direction.

[Environmental precautions]

Collect leaked material in empty container after leading outflow to a safe area containing earth and sand.

Do not allow leaked material to pollute rivers, lakes, etc.

[Methods and material for containment and cleaning up]

Wipe off by dry cloth and wash with water.

Dispose of pollution or waste in accordance with national, state and local regulations.

[Reference to other sections]

No information available.

7. Handling and storage**[Precautions for safe handling]**

Do not lick or swallow the ink.

Avoid contact with skin and eyes.

Recap after use (if there is a cap), and keep out of the reach of infants.

[Conditions for safe storage, including any incompatibilities]

Keep away from oxidizing materials, ignition sources, high temperature and direct sunlight.

Recommended temperature : 0-40°C

[Specific end use(s)]

No information available.

8. Exposure controls/personal protection**[Control parameters]**

Chemical name	OSHA	ACGIH
Titanium dioxide	-	(TWA)10mg/m ³
Ethanol	-	(TWA)1000ppm
1,2-Ethanediol	-	(STEL)100mg/m ³

[Exposure controls]

Protective equipment	: Not required.
Respiratory protection	: Not required.
Hands protection	: Not required.
Eye protection	: Not required.
Skin protection	: Not required.

9. Physical and chemical properties**[Information on basic physical and chemical properties]**

Color	: Green
State	: Liquid
Odor	: slight odor
pH	: about 8.1
Boiling point	: No information available.[Water 100°C]

MSDS for #19994 - UNI POSCA MARKER

Page 4 of 5

PC-1M Green

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2014/09/18

Melting point	: No information available.
Flash point	: No information available.
Autoignition temperature	: No information available.
Explosion limits	: No information available.
Vapor density(air=1)	: No information available.
Density	: about 1.1
Solubility in water	: soluble
Evaporation rate	: No information available.
Volatile	: >70%
[Other information]	No information available.

10. Stability and reactivity

[Chemical stability]

This mixture is stable in normal temperature, a condition of the pressure.

[Reactivity]

No data available.

[Conditions to avoid]

Avoid heat, flames, sparks and other sources of ignition.

Avoid direct sunlight and high temperature.

[Incompatible materials]

No information available.

[Hazardous decomposition products]

No information available.

[Possibility of hazardous reactions]

No information available.

11. Toxicological information

[Information on toxicological effects]

Acute toxicity(oral)

Not classified

: >2000 mg/kg (estimate value)

Acute toxicity(skin)

Not classified

: >2000 mg/kg (estimate value)

Acute toxicity(inhalation/vapours)

Not classified

: >20 mg/L (estimate value)

Skin corrosion/irritation

No information available.

Serious eye damage/Eye Irritation

Titanium dioxide

: Category2B

Ethanol

: Category2A

1,2-Ethanedio

: Category2B

Respiratory sensitizer

No information available.

Skin sensitizer

No information available.

Germ cell mutagenicity

Ethanol

: Category1B

PC-1M Green

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2014/09/18

Carcinogenicity
Additive : Category2

Toxic to reproduction
Ethanol : Category1A
Additive : Category2

Specific target organ systemic toxicity(single exposure)
1,2-Ethanediol : Category1

Specific target organ systemic toxicity(repeated exposure)
Titanium dioxide : Category1
Ethanol : Category1
1,2-Ethanediol : Category1

Aspiration hazard
No information available.

Hazard to the Aquatic Environment (Acute)
No information available.

Hazard to the Aquatic Environment (Chronic)
No information available.

12. Ecological information
No information available.

13. Disposal considerations
[Waste treatment methods]
Dispose in accordance with all current regulations and standards.
Do not allow it to flow into the drainages with waste fluid.

14. Transport information
[Environmental hazards] No information available.
[HS Code] 980820
[Special precautions for user] Check the container for any leakage. Load a cargo without a dropping or incurring damage, and take caution against collapse of container.

15. Regulatory information
TSCA : Listed on the TSCA inventory or polymer substance.
[Chemical safety assessment]
Ink or lead are manufactured in accordance with ISO 8124-3 "Safety of Toys - Part 3"

16. Other information

- The information is based on our present knowledge at the date of its publication, and designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.
- This shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

PC-1M Light green

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2014/09/18

SAFETY DATA SHEET

1. Product and Company Identification

[Product name] PC-1M Light green
 [File No.] 100024E
 [Date of issue] 2014/09/18
 [Details of Manufacture]

Manufacture's name: MITSUBISHI PENCIL CO., LTD.
 Address: 5-23-37, HIGASHIOHI, SHINAGAWA, TOKYO, JAPAN
 Telephone number: 03-3458-8281 telefax number: 03-3450-0363
 (Only office hour are available.)

2. Hazards identification

Information of this section is about the ink.

[Classification of the substance or mixture]

PHYSICO-CHEMICAL HAZARDS

Not applicable.

HEALTH HAZARDS

Acute toxicity(oral)	: Not classified
Acute toxicity(skin)	: Not classified
Acute toxicity(inhalation steam)	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/Eye Irritation	: Category2
Respiratory sensitizer	: Classification not possible
Skin sensitizer	: Classification not possible
Germ cell mutagenicity	: Category1
Carcinogenicity	: Category2
Toxic to reproduction	: Category1
Specific target organ systemic toxicity(single exposure)	: Category1
Specific target organ systemic toxicity(repeated exposure)	: Category1
Aspiration hazard	: Not classified

ENVIRONMENTAL HAZARDS

Hazard to the Aquatic Environment (Acute)	: Not classified
Hazard to the Aquatic Environment (Chronic)	: Not classified

[Label elements]

Pictogram



Signal Word

: Danger

Hazard Statement

: Causes serious eye damage
 : May cause genetic defects
 : Suspected of causing cancer
 : May damage fertility or the unborn child
 : Causes damage to organs
 : Causes damage to organs through prolonged or repeated exposure

Precautionary Statement

: Do not breathe dust/vapours etc..
 : Do not eat, drink or smoke when using this product.

MSDS for #19994 - UNI POSCA MARKER

Page 2 of 5

PC-1M Light green

MITSUBISHI PENCIL CO., LTD.

(Date of issue): 2014/09/18

- : Use personal protective equipment as required. (Refer to Section 8)
 - : Get medical advice/attention if you feel unwell.
 - : **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - : **IF exposed or concerned:** Get medical advice/attention.
 - : **If eye irritation persists:** Get medical advice/attention.
 - : **Dispose in accordance with all current regulations and standards.**
- No information available.

[Other hazards]

3. Composition/information on ingredients

[The chemical product is a substance or a mixture] [Chemical nature]	[Component parts]	Mixture Ink [Ink quantity of product :about 2.7g]
Chemical name	Cas No.	Concentration range(wt%)
Water	7732-18-5	50-80
Titanium dioxide	13463-67-7	10-30
1,2-Ethandiol	107-21-1	<10
Ethanol	64-17-5	<10
Additive	Trade secret	<10
Coloring agent	Trade secret	<10
Resin	Trade secret	<10

4. First aid measures

[Description of first aid measures]

- Eye contact** : Flush eyes with plenty of water for at least 15 minutes.
: Take off the contact lens if possible
: Consult medical advice depending on the symptoms.
- Skin contact** : Wash skin.
: Consult medical advice depending on the symptoms.
: Thoroughly clean and dry contaminated clothing and shoes before reuse.
- Ingestion** : Rinse mouth, give plenty of water to dilute. No specific intervention is indicated as compound is not likely to be hazardous by ingestion.
: Consult medical advice depending on the symptoms.
- Inhalation** : Due to its low vapor pressure inhalation is unlikely at room temperature.
: If not feeling well, move to an area of fresh air and rest.
: Consult medical advice depending on the symptoms.

[Most important symptoms and effects, both acute and delayed]

No information available.

[Indication of any immediate medical attention and special treatment needed]

No information available.

5. Firefighting measures

[Extinguishing media]

Regular dry chemical, carbon dioxide, water, regular foam

[Special hazards arising from the substance or mixture]

No further relevant information available.

[Advice for firefighters]

Stay upwind and keep out of low areas and avoid inhalation of material or combustion by-products.
Wear suitable protective equipment.

PC-1M Light green

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2014/09/18

6. Accidental release measures**[Personal precautions, protective equipment and emergency procedures]**

Rope off the area to contain the leak and prohibit entrance except for authorized persons.

Wear appropriate protection gear.

Do not work in windward direction.

[Environmental precautions]

Collect leaked material in empty container after leading outflow to a safe area containing earth and sand.

Do not allow leaked material to pollute rivers, lakes, etc.

[Methods and material for containment and cleaning up]

Wipe off by dry cloth and wash with water.

Dispose of pollution or waste in accordance with national, state and local regulations.

[Reference to other sections]

No information available.

7. Handling and storage**[Precautions for safe handling]**

Do not lick or swallow the ink.

Avoid contact with skin and eyes.

Recap after use (if there is a cap), and keep out of the reach of infants.

[Conditions for safe storage, including any incompatibilities]

Keep away from oxidizing materials, ignition sources, high temperature and direct sunlight.

Recommended temperature : 0-40°C

[Specific end use(s)]

No information available.

8. Exposure controls/personal protection**[Control parameters]**

Chemical name	OSHA	ACGIH
Titanium dioxide	-	(TWA)10mg/m ³
Ethanol	-	(TWA)1000ppm
1,2-Ethanediol	-	(STEL)100mg/m ³

[Exposure controls]

Protective equipment	: Not required.
Respiratory protection	: Not required.
Hands protection	: Not required.
Eye protection	: Not required.
Skin protection	: Not required.

9. Physical and chemical properties**[Information on basic physical and chemical properties]**

Color	: Light green
State	: Liquid
Odor	: slight odor
pH	: about 8.0
Boiling point	: No information available.[Water 100°C]

MSDS for #19994 - UNI POSCA MARKER

Page 4 of 5

PC-1M Light green

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2014/09/18

Melting point : No information available.
 Flash point : No information available.
 Autoignition temperature : No information available.
 Explosion limits : No information available.
 Vapor density(air=1) : No information available.
 Density : about 1.2
 Solubility in water : soluble
 Evaporation rate : No information available.
 Volatile : >80%
 [Other information] No information available.

10. Stability and reactivity

[Chemical stability]

This mixture is stable in normal temperature, a condition of the pressure.

[Reactivity]

No data available.

[Conditions to avoid]

Avoid heat, flames, sparks and other sources of ignition.

Avoid direct sunlight and high temperature.

[Incompatible materials]

No information available.

[Hazardous decomposition products]

No information available.

[Possibility of hazardous reactions]

No information available.

11. Toxicological information

[Information on toxicological effects]

Acute toxicity(oral)

Not classified

: >2000 mg/kg (estimate value)

Acute toxicity(skin)

Not classified

: >2000 mg/kg (estimate value)

Acute toxicity(inhalation:vapours)

Not classified

: >20 mg/L (estimate value)

Skin corrosion/irritation

No information available.

Serious eye damage/Eye Irritation

Titanium dioxide

: Category2B

Ethanol

: Category2A

1,2-Ethanediol

: Category2B

Respiratory sensitizer

No information available.

Skin sensitizer

No information available.

Germ cell mutagenicity

Ethanol

: Category1B

PC-1M Light green

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2014/09/18

Carcinogenicity

Additive : Category2

Toxic to reproduction

Ethanol : Category1A

Additive : Category2

Specific target organ systemic toxicity(single exposure)

1,2-Ethanediol : Category1

Specific target organ systemic toxicity(repeated exposure)

Titanium dioxide : Category1

Ethanol : Category1

1,2-Ethanediol : Category1

Aspiration hazard

No information available.

Hazard to the Aquatic Environment (Acute)

No information available.

Hazard to the Aquatic Environment (Chronic)

No information available.

12. Ecological information

No information available.

13. Disposal considerations

[Waste treatment methods]

Dispose in accordance with all current regulations and standards.

Do not allow it to flow into the drainages with waste fluid.

14. Transport information

[Environmental hazards]

No information available.

[HS Code]

960820

[Special precautions for user]

Check the container for any leakage. Load a cargo without a dropping or incurring damage, and take caution against collapse of container.

15. Regulatory information

TSCA : Listed on the TSCA inventory or polymer substance.

[Chemical safety assessment]

Ink or lead are manufactured in accordance with ISO 8124-3 "Safety of Toys - Part 3"

16. Other information

- The information is based on our present knowledge at the date of its publication, and designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.
- This shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

PC-1M Pink

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2014/09/18

SAFETY DATA SHEET

1. Product and Company Identification

[Product name] PC-1M Pink
 [File No.] 100048E
 [Date of issue] 2014/09/18
 [Details of Manufacture]

Manufacture's name: MITSUBISHI PENCIL CO., LTD.
 Address: 5-23-37, HIGASHIOHI, SHINAGAWA, TOKYO, JAPAN
 Telephone number: 03-3488-6281 telefax number: 03-3450-0363
 (Only office hour are available)

2. Hazards identification

Information of this section is about the ink.

[Classification of the substance or mixture]

PHYSICO-CHEMICAL HAZARDS

Not applicable.

HEALTH HAZARDS

Acute toxicity(oral) : Not classified
 Acute toxicity(skin) : Not classified
 Acute toxicity(inhalation steam) : Not classified
 Skin corrosion/irritation : Not classified
 Serious eye damage/Eye Irritation : Category2
 Respiratory sensitizer : Classification not possible
 Skin sensitizer : Classification not possible
 Germ cell mutagenicity : Category1
 Carcinogenicity : Category2
 Toxic to reproduction : Category1
 Specific target organ systemic toxicity(single exposure) : Category1
 Specific target organ systemic toxicity(repeated exposure) : Category1
 Aspiration hazard : Not classified

ENVIRONMENTAL HAZARDS

Hazard to the Aquatic Environment (Acute) : Not classified
 Hazard to the Aquatic Environment (Chronic) : Not classified

[Label elements]

Pictogram



Signal Word : Danger
 Hazard Statement : Causes serious eye damage
 : May cause genetic defects
 : Suspected of causing cancer
 : May damage fertility or the unborn child
 : Causes damage to organs
 : Causes damage to organs through prolonged or repeated exposure
 Precautionary Statement : Do not breathe dust/vapours etc..
 : Do not eat, drink or smoke when using this product.

MSDS for #19994 - UNI POSCA MARKER

Page 2 of 6

PC-1M Pink

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2014/09/18

- : Use personal protective equipment as required. (Refer to Section 8)
 - : Get medical advice/attention if you feel unwell.
 - : **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - : **IF exposed or concerned:** Get medical advice/attention.
 - : **If eye irritation persists:** Get medical advice/attention.
 - : **Dispose in accordance with all current regulations and standards.**
- [Other hazards] No information available.

3. Composition/information on ingredients

[The chemical product is a substance or a mixture]	[Component parts]	Mixture
[Chemical nature]	[Component parts]	Ink [Ink quantity of product :about 2.6g]
Chemical name	Case No.	Concentration range(wt%)
Water	7732-18-5	50-80
Titanium dioxide	13463-67-7	10-30
1,2-Ethanediol	107-21-1	<10
Ethanol	64-17-5	<10
Additive	Trade secret	<10
Coloring agent	Trade secret	<10
Resin	Trade secret	<10
Polyethylene glycol nonylphenyl ether	9016-45-9	<1

4. First aid measures

[Description of first aid measures]

- Eye contact**
- : Flush eyes with plenty of water for at least 15 minutes.
 - : Take off the contact lens if possible
 - : Consult medical advice depending on the symptoms.
- Skin contact**
- : Wash skin.
 - : Consult medical advice depending on the symptoms.
 - : Thoroughly clean and dry contaminated clothing and shoes before reuse.
- Ingestion**
- : Rinse mouth, give plenty of water to dilute. No specific intervention is indicated as compound is not likely to be hazardous by ingestion.
 - : Consult medical advice depending on the symptoms.
- Inhalation**
- : Due to its low vapor pressure inhalation is unlikely at room temperature.
 - : If not feeling well, move to an area of fresh air and rest.
 - : Consult medical advice depending on the symptoms.

[Most important symptoms and effects, both acute and delayed]

No information available.

[Indication of any immediate medical attention and special treatment needed]

No information available.

5. Firefighting measures

[Extinguishing media]

Regular dry chemical, carbon dioxide, water, regular foam

[Special hazards arising from the substance or mixture]

No further relevant information available.

[Advice for firefighters]

Stay upwind and keep out of low areas and avoid inhalation of material or combustion by-products.

Item Numbers: 19994-3067

Page 2 of 6
2/6

PC-1M Pink

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2014/09/18

Wear suitable protective equipment.

6. Accidental release measures

[Personal precautions, protective equipment and emergency procedures]

Rope off the area to contain the leak and prohibit entrance except for authorized persons.

Wear appropriate protection gear.

Do not work in windward direction.

[Environmental precautions]

Collect leaked material in empty container after leading outflow to a safe area containing earth and sand.

Do not allow leaked material to pollute rivers, lakes, etc.

[Methods and material for containment and cleaning up]

Wipe off by dry cloth and wash with water.

Dispose of pollution or waste in accordance with national, state and local regulations.

[Reference to other sections]

No information available.

7. Handling and storage

[Precautions for safe handling]

Do not lick or swallow the ink.

Avoid contact with skin and eyes.

Recap after use (if there is a cap), and keep out of the reach of infants.

[Conditions for safe storage, including any incompatibilities]

Keep away from oxidizing materials, ignition sources, high temperature and direct sunlight.

Recommended temperature : 0-40°C

[Specific end use(s)]

No information available.

8. Exposure controls/personal protection

[Control parameters]

Chemical name	OSHA	ACGIH
Titanium dioxide	-	(TWA)10mg/m3
Ethanol	-	(TWA)1000ppm
1,2-Ethanediol	-	(STEL)100mg/m3

[Exposure controls]

Protective equipment	: Not required.
Respiratory protection	: Not required.
Hands protection	: Not required.
Eye protection	: Not required.
Skin protection	: Not required.

9. Physical and chemical properties

[Information on basic physical and chemical properties]

Color	: Pink
State	: Liquid
Odor	: slight odor
pH	: about 8.0

MSDS for #19994 - UNI POSCA MARKER

Page 4 of 6

PC-1M Pink

MITSUBISHI PENCIL CO., LTD.

[Date of issue]:2014/09/18

Boiling point	: No information available.[Water 100°C]
Melting point	: No information available.
Flash point	: No information available.
Autoignition temperature	: No information available.
Explosion limits	: No information available.
Vapor density(air=1)	: No information available.
Density	: about 1.1
Solubility in water	: soluble
Evaporation rate	: No information available.
Volatile	: >60%
[Other information]	No information available.

10. Stability and reactivity

[Chemical stability]

This mixture is stable in normal temperature, a condition of the pressure.

[Reactivity]

No data available.

[Conditions to avoid]

Avoid heat, flames, sparks and other sources of ignition.

Avoid direct sunlight and high temperature.

[Incompatible materials]

No information available.

[Hazardous decomposition products]

No information available.

[Possibility of hazardous reactions]

No information available.

11. Toxicological information

[Information on toxicological effects]

Acute toxicity(oral)

Not classified

: >2000 mg/kg (estimate value)

Acute toxicity(skin)

Not classified

: >2000 mg/kg (estimate value)

Acute toxicity(inhalation:vapours)

Not classified

: >20 mg/L (estimate value)

Skin corrosion/irritation

No information available.

Serious eye damage/Eye Irritation

Titanium dioxide

: Category2B

Ethanol

: Category2A

1,2-Ethanedial

: Category2B

Respiratory sensitizer

No information available.

Skin sensitizer

No information available.

Germ cell mutagenicity

Ethanol

: Category1B

PC-1M Pink

MITSUBISHI PENCIL CO., LTD.

(Date of issue): 2014/09/18

Carcinogenicity

Additive : Category2

Toxic to reproduction

Polyethylene glycol nonylphenyl ether : Category2

Ethanol : Category1A

Additive : Category2

Specific target organ systemic toxicity(single exposure)

1,2-Ethandiol : Category1

Specific target organ systemic toxicity(repeated exposure)

Titanium dioxide : Category1

Ethanol : Category1

1,2-Ethandiol : Category1

Aspiration hazard

No information available.

Hazard to the Aquatic Environment (Acute)

No information available.

Hazard to the Aquatic Environment (Chronic)

No information available.

12. Ecological information

No information available.

13. Disposal considerations**[Waste treatment methods]**

Dispose in accordance with all current regulations and standards.

Do not allow it to flow into the drainages with waste fluid.

14. Transport information**[Environmental hazards]**

No information available.

[HS Code]

960820

[Special precautions for user]

Check the container for any leakage. Load a cargo without a dropping or incurring damage, and take caution against collapse of container.

15. Regulatory information

TSCA : Listed on the TSCA inventory or polymer substance.

[Chemical safety assessment]

Ink or lead are manufactured in accordance with ISO 8124-3 "Safety of Toys - Part 3"

16. Other information

- The information is based on our present knowledge at the date of its publication, and designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.

PC-1M Pink

MITSUBISHI PENCIL CO., LTD.

[Date of Issue]: 2014/09/18

- This shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

PC-3M Light orange

MITSUBISHI PENCIL CO., LTD.

(Date of issue):2014/09/18

SAFETY DATA SHEET

1. Product and Company Identification

[Product name] PC-3M Light orange
 [File No.] 100032E
 [Date of issue] 2014/09/18
 [Details of Manufacture]

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
 (Only office hour are available.)

2. Hazards identification

Information of this section is about the ink.

[Classification of the substance or mixture]

PHYSICO-CHEMICAL HAZARDS

Not applicable.


HEALTH HAZARDS

Acute toxicity(oral) : Not classified
 Acute toxicity(skin) : Not classified
 Acute toxicity(inhalation steam) : Not classified
 Skin corrosion/irritation : Not classified
 Serious eye damage/Eye Irritation : Category2
 Respiratory sensitizer : Classification not possible
 Skin sensitizer : Classification not possible
 Germ cell mutagenicity : Category1
 Carcinogenicity : Category2
 Toxic to reproduction : Category1
 Specific target organ systemic toxicity(single exposure) : Category1
 Specific target organ systemic toxicity(repeated exposure) : Category1
 Aspiration hazard : Not classified

ENVIRONMENTAL HAZARDS

Hazard to the Aquatic Environment (Acute) : Not classified
 Hazard to the Aquatic Environment (Chronic) : Not classified

[Label elements]

Pictogram : 

Signal Word : Danger

Hazard Statement : Causes serious eye damage
 : May cause genetic defects
 : Suspected of causing cancer
 : May damage fertility or the unborn child
 : Causes damage to organs
 : Causes damage to organs through prolonged or repeated exposure

Precautionary Statement

: Do not breathe dust/vapours etc..
 : Do not eat, drink or smoke when using this product.

MSDS for #19994 - UNI POSCA MARKER

Page 2 of 6

PC-3M Light orange

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2014/09/18

- : Use personal protective equipment as required. (Refer to Section 8)
 - : Get medical advice/attention if you feel unwell.
 - : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - : IF exposed or concerned: Get medical advice/attention.
 - : If eye irritation persists: Get medical advice/attention.
 - : Dispose in accordance with all current regulations and standards.
- No information available.

[Other hazards]

3. Composition/information on ingredients

[The chemical product is a substance or a mixture] [Chemical nature]	[Component parts]	Mixture Ink [Ink quantity of product :about 4.2g]
Chemical name	Gas No.	Concentration range(wt%)
Water	7732-18-5	50-80
Titanium dioxide	13463-67-7	10-30
1,2-Ethanediol	107-21-1	<10
Ethanol	64-17-5	<10
Additive	Trade secret	<10
Coloring agent	Trade secret	<10
Resin	Trade secret	<10

4. First aid measures

[Description of first aid measures]

- Eye contact** : Flush eyes with plenty of water for at least 15 minutes.
: Take off the contact lens if possible
: Consult medical advice depending on the symptoms.
- Skin contact** : Wash skin.
: Consult medical advice depending on the symptoms.
: Thoroughly clean and dry contaminated clothing and shoes before reuse.
- Ingestion** : Rinse mouth, give plenty of water to dilute. No specific intervention is indicated as compound is not likely to be hazardous by ingestion.
: Consult medical advice depending on the symptoms.
- Inhalation** : Due to its low vapor pressure inhalation is unlikely at room temperature.
: If not feeling well, move to an area of fresh air and rest.
: Consult medical advice depending on the symptoms.

[Most important symptoms and effects, both acute and delayed]

No information available.

[Indication of any immediate medical attention and special treatment needed]

No information available.

5. Firefighting measures

[Extinguishing media]

Regular dry chemical, carbon dioxide, water, regular foam

[Special hazards arising from the substance or mixture]

No further relevant information available.

[Advice for firefighters]

Stay upwind and keep out of low areas and avoid inhalation of material or combustion by-products.
Wear suitable protective equipment.

MSDS for #19994 - UNI POSCA MARKER

Page 3 of 6

PC-3M Light orange

MITSUBISHI PENCIL CO., LTD.

(Date of issue):2014/09/18

6. Accidental release measures**[Personal precautions, protective equipment and emergency procedures]**

Rope off the area to contain the leak and prohibit entrance except for authorized persons.

Wear appropriate protection gear.

Do not work in windward direction.

[Environmental precautions]

Collect leaked material in empty container after leading outflow to a safe area containing earth and sand.

Do not allow leaked material to pollute rivers, lakes, etc.

[Methods and material for containment and cleaning up]

Wipe off by dry cloth and wash with water.

Dispose of pollution or waste in accordance with national, state and local regulations.

[Reference to other sections]

No information available.

7. Handling and storage**[Precautions for safe handling]**

Do not lick or swallow the ink.

Avoid contact with skin and eyes.

Recap after use (if there is a cap), and keep out of the reach of infants.

[Conditions for safe storage, including any incompatibilities]

Keep away from oxidizing materials, ignition sources, high temperature and direct sunlight.

Recommended temperature : 0-40°C

[Specific end use(s)]

No information available.

8. Exposure controls/personal protection**[Control parameters]**

Chemical name	OSHA	ACGIH
Titanium dioxide	-	(TWA)10mg/m3
Ethanol	-	(TWA)1000ppm
1,2-Ethanediol	-	(STEL)100mg/m3

[Exposure controls]

Protective equipment	: Not required.
Respiratory protection	: Not required.
Hands protection	: Not required.
Eye protection	: Not required.
Skin protection	: Not required.

9. Physical and chemical properties**[Information on basic physical and chemical properties]**

Color	: Light orange
State	: Liquid
Odor	: slight odor
pH	: about 8.1
Boiling point	: No information available.[Water 100°C]

MSDS for #19994 - UNI POSCA MARKER

Page 4 of 6

PC-3M Light orange

MITSUBISHI PENCIL CO., LTD.

[Date of issue]:2014/09/18

Melting point	: No information available.
Flash point	: No information available.
Autoignition temperature	: No information available.
Explosion limits	: No information available.
Vaper density(air=1)	: No information available.
Density	: about 1.2
Solubility in water	: soluble
Evaporation rate	: No information available.
Volatile	: >60%
[Other information]	No information available.

10. Stability and reactivity

[Chemical stability]

This mixture is stable in normal temperature, a condition of the pressure.

[Reactivity]

No data available.

[Conditions to avoid]

Avoid heat, flames, sparks and other sources of ignition.

Avoid direct sunlight and high temperature.

[Incompatible materials]

No information available.

[Hazardous decomposition products]

No information available.

[Possibility of hazardous reactions]

No information available.

11. Toxicological information

[Information on toxicological effects]

Acute toxicity(oral)

Not classified : >2000 mg/kg (estimate value)

Acute toxicity(skin)

Not classified : >2000 mg/kg (estimate value)

Acute toxicity(inhalation:vapours)

Not classified : >20 mg/L (estimate value)

Skin corrosion/irritation

No information available.

Serious eye damage/Eye Irritation

Titanium dioxide : Category2B

Ethanol : Category2A

1,2-Ethanediol : Category2B

Additive : Category2A

Respiratory sensitizer

No information available.

Skin sensitizer

No information available.

Germ cell mutagenicity

Ethanol : Category1B

MSDS for #19994 - UNI POSCA MARKER

Page 5 of 6

PC-3M Light orange

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2014/09/18

Carcinogenicity
Additive : **Category2**

Toxic to reproduction
Ethanol : **Category1A**
Additive : **Category2**

Specific target organ systemic toxicity(single exposure)
Titanium dioxide : **Category3**
1,2-Ethanediol : **Category1**
Additive : **Category1**

Specific target organ systemic toxicity(repeated exposure)
Titanium dioxide : **Category1**
Ethanol : **Category1**
1,2-Ethanediol : **Category1**
Additive : **Category2**

Aspiration hazard
 No information available.

Hazard to the Aquatic Environment (Acute)
 No information available.

Hazard to the Aquatic Environment (Chronic)
 No information available.

12. Ecological information
 No information available.

13. Disposal considerations
[Waste treatment methods]
 Dispose in accordance with all current regulations and standards.
 Do not allow it to flow into the drainages with waste fluid.

14. Transport information
[Environmental hazards] No information available.
[HS Code] 980820
[Special precautions for user] Check the container for any leakage. Load a cargo without a dropping or incurring damage, and take caution against collapse of container.

15. Regulatory information
TSCA : Listed on the TSCA inventory or polymer substance.
[Chemical safety assessment]
 Ink or lead are manufactured in accordance with ISO 8124-3 "Safety of Toys - Part 3"

PO-3M Light orange

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2014/09/18

16. Other information

- The information is based on our present knowledge at the date of its publication, and designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.
- This shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

PC-1M Orange

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2014/09/18

SAFETY DATA SHEET

1. Product and Company Identification

[Product name] PC-1M Orange
 [File No.] 100042E
 [Date of issue] 2014/09/18
 [Details of Manufacture]

Manufacture's name: MITSUBISHI PENCIL CO., LTD.
 Address: 5-23-37, HIGASHIOHI, SHINAGAWA, TOKYO, JAPAN
 Telephone number: 03-3458-8281 telefax number: 03-3450-0383
 (Only office hour are available.)

2. Hazards identification

Information of this section is about the ink.

[Classification of the substance or mixture]

PHYSICO-CHEMICAL HAZARDS

Not applicable.


HEALTH HAZARDS

Acute toxicity(oral) : Not classified
 Acute toxicity(skin) : Not classified
 Acute toxicity(inhalation steam) : Not classified
 Skin corrosion/irritation : Not classified
 Serious eye damage/Eye Irritation : Category2
 Respiratory sensitizer : Classification not possible
 Skin sensitizer : Classification not possible
 Germ cell mutagenicity : Category1
 Carcinogenicity : Category2
 Toxic to reproduction : Category1
 Specific target organ systemic toxicity(single exposure) : Category1
 Specific target organ systemic toxicity(repeated exposure) : Category1
 Aspiration hazard : Not classified

ENVIRONMENTAL HAZARDS

Hazard to the Aquatic Environment (Acute) : Not classified
 Hazard to the Aquatic Environment (Chronic) : Not classified

[Label elements]

Pictogram : 

Signal Word : Danger
 Hazard Statement : Causes serious eye damage
 : May cause genetic defects
 : Suspected of causing cancer
 : May damage fertility or the unborn child
 : Causes damage to organs
 : Causes damage to organs through prolonged or repeated exposure
 Precautionary Statement : Do not breathe dust/vapours etc.
 : Do not eat, drink or smoke when using this product.

MSDS for #19994 - UNI POSCA MARKER

Page 2 of 5

PC-1M Orange

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2014/09/18

- : Use personal protective equipment as required. (Refer to Section 8)
- : Get medical advice/attention if you feel unwell.
- : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- : IF exposed or concerned: Get medical advice/attention.
- : If eye irritation persists: Get medical advice/attention.
- : Dispose in accordance with all current regulations and standards.

[Other hazards]

No information available.

3. Composition/information on ingredients

[The chemical product is a substance or a mixture] [Chemical nature]	[Component parts] Cas No.	Mixture Ink [Ink quantity of product :about 2.5g] Concentration range(wt%)
Chemical name		
Water	7732-18-5	50-80
Titanium dioxide	13463-67-7	10-30
1,2-Ethanediol	107-21-1	<10
Ethanol	64-17-5	<10
Additive	Trade secret	<10
Coloring agent	Trade secret	<10
Resin	Trade secret	<10

4. First aid measures

[Description of first aid measures]

- Eye contact**
 - : Flush eyes with plenty of water for at least 15 minutes.
 - : Take off the contact lens if possible
 - : Consult medical advice depending on the symptoms.
- Skin contact**
 - : Wash skin.
 - : Consult medical advice depending on the symptoms.
 - : Thoroughly clean and dry contaminated clothing and shoes before reuse.
- Ingestion**
 - : Rinse mouth, give plenty of water to dilute. No specific intervention is indicated as compound is not likely to be hazardous by ingestion.
 - : Consult medical advice depending on the symptoms.
- Inhalation**
 - : Due to its low vapor pressure inhalation is unlikely at room temperature.
 - : If not feeling well, move to an area of fresh air and rest.
 - : Consult medical advice depending on the symptoms.

[Most important symptoms and effects, both acute and delayed]

No information available.

[Indication of any immediate medical attention and special treatment needed]

No information available.

5. Firefighting measures

[Extinguishing media]

Regular dry chemical, carbon dioxide, water, regular foam

[Special hazards arising from the substance or mixture]

No further relevant information available.

[Advice for firefighters]

Stay upwind and keep out of low areas and avoid inhalation of material or combustion by-products.

Wear suitable protective equipment.

PG-1M Orange

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2014/09/18

6. Accidental release measures**[Personal precautions, protective equipment and emergency procedures]**

Rope off the area to contain the leak and prohibit entrance except for authorized persons.

Wear appropriate protection gear.

Do not work in windward direction.

[Environmental precautions]

Collect leaked material in empty container after leading outflow to a safe area containing earth and sand.

Do not allow leaked material to pollute rivers, lakes, etc.

[Methods and material for containment and cleaning up]

Wipe off by dry cloth and wash with water.

Dispose of pollution or waste in accordance with national, state and local regulations.

[Reference to other sections]

No information available.

7. Handling and storage**[Precautions for safe handling]**

Do not lick or swallow the ink.

Avoid contact with skin and eyes.

Recap after use (if there is a cap), and keep out of the reach of infants.

[Conditions for safe storage, including any incompatibilities]

Keep away from oxidizing materials, ignition sources, high temperature and direct sunlight.

Recommended temperature : 0-40°C

[Specific end use(s)]

No information available.

8. Exposure controls/personal protection**[Control parameters]**

Chemical name	OSHA	ACGIH
Titanium dioxide	-	(TWA)10mg/m3
Ethanol	-	(TWA)1000ppm
1,2-Ethanedial	-	(STEL)100mg/m3

[Exposure controls]

Protective equipment	: Not required.
Respiratory protection	: Not required.
Hands protection	: Not required.
Eye protection	: Not required.
Skin protection	: Not required.

9. Physical and chemical properties**[Information on basic physical and chemical properties]**

Color	: Orange
State	: Liquid
Odor	: slight odor
pH	: about 8.3
Boiling point	: No information available.[Water 100°C]

MSDS for #19994 - UNI POSCA MARKER

Page 4 of 5

PC-1M Orange

MITSUBISHI PENCIL CO., LTD.

[Date of issue]:2014/09/18

Melting point	: No information available.
Flash point	: No information available.
Autoignition temperature	: No information available.
Explosion limits	: No information available.
Vapor density(air=1)	: No information available.
Density	: about 1.1
Solubility in water	: soluble
Evaporation rate	: No information available.
Volatile	: >70%
[Other information]	No information available.

10. Stability and reactivity**[Chemical stability]**

This mixture is stable in normal temperature, a condition of the pressure.

[Reactivity]

No data available.

[Conditions to avoid]Avoid heat, flames, sparks and other sources of ignition.
Avoid direct sunlight and high temperature.**[Incompatible materials]**

No information available.

[Hazardous decomposition products]

No information available.

[Possibility of hazardous reactions]

No information available.

11. Toxicological information**[Information on toxicological effects]****Acute toxicity(oral)**

Not classified

: >2000 mg/kg (estimate value)

Acute toxicity(skin)

Not classified

: >2000 mg/kg (estimate value)

Acute toxicity(inhalation:vapours)

Not classified

: >20 mg/L (estimate value)

Skin corrosion/irritation

No information available.

Serious eye damage/Eye Irritation

Titanium dioxide

: Category2B

Ethanol

: Category2A

1,2-Ethandiol

: Category2B

Respiratory sensitizer

No information available.

Skin sensitizer

No information available.

Germ cell mutagenicity

Ethanol

: Category1B

PC-1M Orange

MITSUBISHI PENCIL CO., LTD.

(Date of issue): 2014/09/18

Carcinogenicity

Additive : Category2

Toxic to reproduction

Ethanol : Category1A

Additive : Category2

Specific target organ systemic toxicity(single exposure)

1,2-Ethanediol : Category1

Specific target organ systemic toxicity(repeated exposure)

Titanium dioxide : Category1

Ethanol : Category1

1,2-Ethanediol : Category1

Aspiration hazard

No information available.

Hazard to the Aquatic Environment (Acute)

No information available.

Hazard to the Aquatic Environment (Chronic)

No information available.

12. Ecological information

No information available.

13. Disposal considerations**[Waste treatment methods]**

Dispose in accordance with all current regulations and standards.

Do not allow it to flow into the drainages with waste fluid.

14. Transport information**[Environmental hazards]**

No information available.

[HS Code]

960820

[Special precautions for user]

Check the container for any leakage. Load a cargo without a dropping or incurring damage, and take caution against collapse of container.

15. Regulatory information

TSCA : Listed on the TSCA inventory or polymer substance.

[Chemical safety assessment]

Ink or lead are manufactured in accordance with ISO 8124-3 "Safety of Toys - Part 3"

16. Other information

- The information is based on our present knowledge at the date of its publication, and designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.
- This shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

PC-1M Violet

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2014/09/18

SAFETY DATA SHEET

1. Product and Company Identification

[Product name] PC-1M Violet
 [File No.] 100028E
 [Date of issue] 2014/09/18
 [Details of Manufacture]

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
(Only office hour are available.)

2. Hazards identification

Information of this section is about the ink.

[Classification of the substance or mixture]

PHYSICO-CHEMICAL HAZARDS

Not applicable.

HEALTH HAZARDS

Acute toxicity(oral) : Not classified
 Acute toxicity(skin) : Not classified
 Acute toxicity(inhalation steam) : Not classified
 Skin corrosion/irritation : Not classified
 Serious eye damage/Eye Irritation : Category2
 Respiratory sensitizer : Classification not possible
 Skin sensitizer : Classification not possible
 Germ cell mutagenicity : Category1
 Carcinogenicity : Category2
 Toxic to reproduction : Category1
 Specific target organ systemic toxicity(single exposure) : Category1
 Specific target organ systemic toxicity(repeated exposure) : Category1
 Aspiration hazard : Not classified

ENVIRONMENTAL HAZARDS

Hazard to the Aquatic Environment (Acute) : Not classified
 Hazard to the Aquatic Environment (Chronic) : Not classified

[Label elements]

Pictogram



Signal Word

: Danger

Hazard Statement

: Causes serious eye damage
 : May cause genetic defects
 : Suspected of causing cancer
 : May damage fertility or the unborn child
 : Causes damage to organs
 : Causes damage to organs through prolonged or repeated exposure

Precautionary Statement

: Do not breathe dust/vapours etc..
 : Do not eat, drink or smoke when using this product.

MSDS for #19994 - UNI POSCA MARKER

Page 2 of 5

PC-1M Violet

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2014/09/18

- : Use personal protective equipment as required. (Refer to Section 8)
 - : Get medical advice/attention if you feel unwell.
 - : **IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**
 - : **IF exposed or concerned: Get medical advice/attention.**
 - : **If eye irritation persists: Get medical advice/attention.**
 - : **Dispose in accordance with all current regulations and standards.**
- No information available.

[Other hazards]

3. Composition/information on ingredients

[Chemical nature]	[Component parts]	Mixture Ink [Ink quantity of product :about 2.4g]
Chemical name	Gas No.	Concentration range(wt%)
Water	7732-18-5	50-80
Resin	Trade secret	10-30
1,2-Ethanediol	107-21-1	<10
Titanium dioxide	13463-67-7	<10
Additive	Trade secret	<10
Coloring agent	Trade secret	<10
Polyethylene glycol nonylphenyl ether	9016-45-9	<1

4. First aid measures

[Description of first aid measures]

- Eye contact** : Flush eyes with plenty of water for at least 15 minutes.
- : Take off the contact lens if possible
- : Consult medical advice depending on the symptoms.
- Skin contact** : Wash skin.
- : Consult medical advice depending on the symptoms.
- : Thoroughly clean and dry contaminated clothing and shoes before reuse.
- Ingestion** : Rinse mouth, give plenty of water to dilute. No specific intervention is indicated as compound is not likely to be hazardous by ingestion.
- : Consult medical advice depending on the symptoms.
- Inhalation** : Due to its low vapor pressure inhalation is unlikely at room temperature.
- : If not feeling well, move to an area of fresh air and rest.
- : Consult medical advice depending on the symptoms.

[Most important symptoms and effects, both acute and delayed]

No information available.

[Indication of any immediate medical attention and special treatment needed]

No information available.

5. Firefighting measures

[Extinguishing media]

Regular dry chemical, carbon dioxide, water, regular foam

[Special hazards arising from the substance or mixture]

No further relevant information available.

[Advice for firefighters]

Stay upwind and keep out of low areas and avoid inhalation of material or combustion by-products.

Wear suitable protective equipment.

PC-1M Violet

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2014/09/18

6. Accidental release measures**[Personal precautions, protective equipment and emergency procedures]**

Rope off the area to contain the leak and prohibit entrance except for authorized persons.

Wear appropriate protection gear.

Do not work in windward direction.

[Environmental precautions]

Collect leaked material in empty container after leading outflow to a safe area containing earth and sand.

Do not allow leaked material to pollute rivers, lakes, etc.

[Methods and material for containment and cleaning up]

Wipe off by dry cloth and wash with water.

Dispose of pollution or waste in accordance with national, state and local regulations.

[Reference to other sections]

No information available.

7. Handling and storage**[Precautions for safe handling]**

Do not lick or swallow the ink.

Avoid contact with skin and eyes.

Recap after use (if there is a cap), and keep out of the reach of infants.

[Conditions for safe storage, including any incompatibilities]

Keep away from oxidizing materials, ignition sources, high temperature and direct sunlight.

Recommended temperature : 0-40°C

[Specific end use(s)]

No information available.

8. Exposure controls/personal protection**[Control parameters]**

Chemical name	OSHA	ACGIH
Titanium dioxide	-	(TWA)10mg/m3
1,2-Ethanediol	-	(STEL)100mg/m3

[Exposure controls]

Protective equipment	: Not required.
Respiratory protection	: Not required.
Hands protection	: Not required.
Eye protection	: Not required.
Skin protection	: Not required.

9. Physical and chemical properties**[Information on basic physical and chemical properties]**

Color	: Violet
State	: Liquid
Odor	: slight odor
pH	: about 8.3
Boiling point	: No information available.[Water 100°C]
Melting point	: No information available.

MSDS for #19994 - UNI POSCA MARKER

Page 4 of 5

PC-1M Violet

MITSUBISHI PENCIL CO., LTD.

[Date of issue]:2014/09/18

Flash point : No information available.
 Autoignition temperature : No information available.
 Explosion limits : No information available.
 Vapor density(air=1) : No information available.
 Density : about 1.1
 Solubility in water : soluble
 Evaporation rate : No information available.
 Volatile : >70%
 [Other information] No information available.

10. Stability and reactivity

[Chemical stability] This mixture is stable in normal temperature, a condition of the pressure.
 [Reactivity] No data available.
 [Conditions to avoid] Avoid heat, flames, sparks and other sources of ignition. Avoid direct sunlight and high temperature.
 [Incompatible materials] No information available.
 [Hazardous decomposition products] No information available.
 [Possibility of hazardous reactions] No information available.

11. Toxicological information

[Information on toxicological effects]
 Acute toxicity(oral)
 Not classified : >2000 mg/kg (estimate value)
 Acute toxicity(skin)
 Not classified : >2000 mg/kg (estimate value)
 Acute toxicity(inhalation:vapours)
 Not classified : >20 mg/L (estimate value)
 Skin corrosion/irritation
 No information available.
 Serious eye damage/Eye Irritation
 Titanium dioxide : Category2B
 1,2-Ethanediol : Category2B
 Respiratory sensitizer
 No information available.
 Skin sensitizer
 No information available.
 Germ cell mutagenicity
 Additive : Category1B
 Carcinogenicity
 Additive : Category2

PC-1M Violet

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2014/09/18

Toxic to reproduction**Polyethylene glycol nonylphenyl ether** : Category2**Additive** : Category1A**Specific target organ systemic toxicity(single exposure)****1,2-Ethanediol** : Category1**Specific target organ systemic toxicity(repeated exposure)****Titanium dioxide** : Category1**1,2-Ethanediol** : Category1**Aspiration hazard**

No information available.

Hazard to the Aquatic Environment (Acute)

No information available.

Hazard to the Aquatic Environment (Chronic)

No information available.

12. Ecological information

No information available.

13. Disposal considerations**[Waste treatment methods]**

Dispose in accordance with all current regulations and standards.

Do not allow it to flow into the drainages with waste fluid.

14. Transport information**[Environmental hazards]**

No information available.

[HS Code]

960820

[Special precautions for user]

Check the container for any leakage. Load a cargo without a dropping or incurring damage, and take caution against collapse of container.

15. Regulatory information

TSCA : Listed on the TSCA inventory or polymer substance.

[Chemical safety assessment]

Ink or lead are manufactured in accordance with ISO 8124-3 "Safety of Toys - Part 3"

16. Other information

- The information is based on our present knowledge at the date of its publication, and designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.
- This shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

PC-3M Gray

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2014/09/18

SAFETY DATA SHEET

1. Product and Company Identification

[Product name] PC-3M Gray
 [File No.] 100064E
 [Date of issue] 2014/09/18
 [Details of Manufacture]

Manufacture's name: MITSUBISHI PENCIL CO., LTD.
 Address: 5-23-37, HIGASHIOHI, SHINAGAWA, TOKYO, JAPAN
 Telephone number: 03-3458-8281 telefax number: 03-3450-0363
 (Only office hour are available.)

2. Hazards identification

Information of this section is about the ink.

[Classification of the substance or mixture]

PHYSICO-CHEMICAL HAZARDS

Not applicable.

HEALTH HAZARDS

Acute toxicity(oral) : Not classified
 Acute toxicity(skin) : Not classified
 Acute toxicity(inhalation steam) : Not classified
 Skin corrosion/irritation : Not classified
 Serious eye damage/Eye Irritation : Category2
 Respiratory sensitizer : Classification not possible
 Skin sensitizer : Classification not possible
 Germ cell mutagenicity : Category1
 Carcinogenicity : Category2
 Toxic to reproduction : Category1
 Specific target organ systemic toxicity(single exposure) : Category1
 Specific target organ systemic toxicity(repeated exposure) : Category1
 Aspiration hazard : Not classified

ENVIRONMENTAL HAZARDS

Hazard to the Aquatic Environment (Acute) : Not classified
 Hazard to the Aquatic Environment (Chronic) : Not classified

[Label elements]

Pictogram



Signal Word

: Danger

Hazard Statement

: Causes serious eye damage
 : May cause genaric defects
 : Suspected of causing cancer
 : May damage fertility or the unborn child
 : Causes damage to organs
 : Causes damage to organs through prolonged or repeated exposure

Precautionary Statement

: Do not breathe dust/vapours etc..
 : Do not eat, drink or smoke when using this product.

MSDS for #19994 - UNI POSCA MARKER

Page 2 of 6

PC-3M Gray

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2014/09/18

- : Use personal protective equipment as required.(Refer to Section 8)
 - : Get medical advice/attention if you feel unwell.
 - : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - : IF exposed or concerned: Get medical advice/attention.
 - : If eye irritation persists: Get medical advice/attention.
 - : Dispose in accordance with all current regulations and standards.
- No information available.

[Other hazards]

3. Composition/information on ingredients

[The chemical product is a substance or a mixture] [Chemical nature]	[Component parts] Cas No.	Mixture Ink[Ink quantity of product :about 4.3g] Concentration range(wt%)
Chemical name		
Water	7732-18-5	50-80
Titanium dioxide	13463-67-7	10-30
1,2-Ethanediol	107-21-1	<10
Ethanol	64-17-5	<10
Additive	Trade secret	<10
Coloring agent	Trade secret	<10
Resin	Trade secret	<10
Carbon black	1333-86-4	<1

4. First aid measures

[Description of first aid measures]

- Eye contact** : Flush eyes with plenty of water for at least 15 minutes.
: Take off the contact lens if possible
: Consult medical advice depending on the symptoms.
- Skin contact** : Wash skin.
: Consult medical advice depending on the symptoms.
: Thoroughly clean and dry contaminated clothing and shoes before reuse.
- Ingestion** : Rinse mouth, give plenty of water to dilute. No specific intervention is indicated as compound is not likely to be hazardous by ingestion.
: Consult medical advice depending on the symptoms.
- Inhalation** : Due to its low vapor pressure inhalation is unlikely at room temperature.
: If not feeling well, move to an area of fresh air and rest.
: Consult medical advice depending on the symptoms.

[Most important symptoms and effects, both acute and delayed]

No information available.

[Indication of any immediate medical attention and special treatment needed]

No information available.

5. Firefighting measures

[Extinguishing media]

Regular dry chemical, carbon dioxide, water, regular foam

[Special hazards arising from the substance or mixture]

No further relevant information available.

[Advice for firefighters]

Stay upwind and keep out of low areas and avoid inhalation of material or combustion by-products.

PC-3M Gray

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2014/09/18

Wear suitable protective equipment.

6. Accidental release measures**[Personal precautions, protective equipment and emergency procedures]**

Rope off the area to contain the leak and prohibit entrance except for authorized persons.

Wear appropriate protection gear.

Do not work in windward direction.

[Environmental precautions]

Collect leaked material in empty container after leading outflow to a safe area containing earth and sand.

Do not allow leaked material to pollute rivers, lakes, etc.

[Methods and material for containment and cleaning up]

Wipe off by dry cloth and wash with water.

Dispose of pollution or waste in accordance with national, state and local regulations.

[Reference to other sections]

No information available.

7. Handling and storage**[Precautions for safe handling]**

Do not lick or swallow the ink.

Avoid contact with skin and eyes.

Recap after use (if there is a cap), and keep out of the reach of infants.

[Conditions for safe storage, including any incompatibilities]

Keep away from oxidizing materials, ignition sources, high temperature and direct sunlight.

Recommended temperature : 0-40°C

[Specific end use(s)]

No information available.

8. Exposure controls/personal protection**[Control parameters]**

Chemical name	OSHA	ACGIH
Titanium dioxide	-	(TWA)10mg/m3
Ethanol	-	(TWA)1000ppm
1,2-Ethanediol	-	(STEL)100mg/m3

[Exposure controls]

Protective equipment	: Not required.
Respiratory protection	: Not required.
Hands protection	: Not required.
Eye protection	: Not required.
Skin protection	: Not required.

9. Physical and chemical properties**[Information on basic physical and chemical properties]**

Color	: Gray
State	: Liquid
Odor	: slight odor
pH	: about 8.5

MSDS for #19994 - UNI POSCA MARKER

Page 4 of 6

PC-3M Gray

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2014/09/18

Boiling point	: No information available.[Water 100°C]
Melting point	: No information available.
Flash point	: No information available.
Autoignition temperature	: No information available.
Explosion limits	: No information available.
Vapor density(air=1)	: No information available.
Density	: about 1.3
Solubility in water	: soluble
Evaporation rate	: No information available.
Volatile	: >60%
[Other information]	No information available.

10. Stability and reactivity**[Chemical stability]**

This mixture is stable in normal temperature, a condition of the pressure.

[Reactivity]

No data available.

[Conditions to avoid]

Avoid heat, flames, sparks and other sources of ignition.

Avoid direct sunlight and high temperature.

[Incompatible materials]

No information available.

[Hazardous decomposition products]

No information available.

[Possibility of hazardous reactions]

No information available.

11. Toxicological information**[Information on toxicological effects]****Acute toxicity(oral)**

Not classified : >2000 mg/kg (estimate value)

Acute toxicity(skin)

Not classified : >2000 mg/kg (estimate value)

Acute toxicity(inhalation:vapours)

Not classified : >20 mg/L (estimate value)

Skin corrosion/irritation

No information available.

Serious eye damage/Eye Irritation

Titanium dioxide : Category2B

Ethanol : Category2A

1,2-Ethanediol : Category2B

Additive : Category2A

Respiratory sensitizer

No information available.

Skin sensitizer

No information available.

PC-3M Gray

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2014/09/18

Germ cell mutagenicity

Ethanol : Category1B

Carcinogenicity

Carbon black : Category2

Additive : Category2

Toxic to reproduction

Ethanol : Category1A

Additive : Category2

Specific target organ systemic toxicity(single exposure)

Titanium dioxide : Category3

1,2-Ethanediol : Category1

Additive : Category1

Specific target organ systemic toxicity(repeated exposure)

Titanium dioxide : Category1

Ethanol : Category1

1,2-Ethanediol : Category1

Additive : Category2

Aspiration hazard

No information available.

Hazard to the Aquatic Environment (Acute)

No information available.

Hazard to the Aquatic Environment (Chronic)

No information available.

12. Ecological information

No information available.

13. Disposal considerations

[Waste treatment methods]

Dispose in accordance with all current regulations and standards.

Do not allow it to flow into the drainages with waste fluid.

14. Transport information

[Environmental hazards]

No information available.

[HS Code]

980820

[Special precautions for user]

Check the container for any leakage. Load a cargo without a dropping or incurring damage, and take caution against collapse of container.

15. Regulatory information

TSCA : Listed on the TSCA inventory or polymer substance.

[Chemical safety assessment]

Ink or lead are manufactured in accordance with ISO 8124-3 "Safety of Toys - Part 3"

PC-3M Grey

MITSUBISHI PENCIL CO., LTD.

(Date of issue): 2014/09/18

16. Other information

- The information is based on our present knowledge at the date of its publication, and designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.
- This shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

PC-1M Brown

MITSUBISHI PENCIL CO., LTD.

(Date of issue): 2014/09/18

SAFETY DATA SHEET

1. Product and Company Identification

[Product name] PC-1M Brown
 [File No.] 100055E
 [Date of issue] 2014/09/18
 [Details of Manufacture]

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
 (Only office hour are available.)

2. Hazards identification

Information of this section is about the ink.

[Classification of the substance or mixture]

PHYSICO-CHEMICAL HAZARDS

Not applicable.

HEALTH HAZARDS

Acute toxicity(oral) : Not classified
 Acute toxicity(skin) : Not classified
 Acute toxicity(inhalation steam) : Not classified
 Skin corrosion/irritation : Not classified
 Serious eye damage/Eye Irritation : Category2
 Respiratory sensitizer : Classification not possible
 Skin sensitizer : Classification not possible
 Germ cell mutagenicity : Category1
 Carcinogenicity : Category2
 Toxic to reproduction : Category1
 Specific target organ systemic toxicity(single exposure) : Category1
 Specific target organ systemic toxicity(repeated exposure) : Category1
 Aspiration hazard : Not classified

ENVIRONMENTAL HAZARDS

Hazard to the Aquatic Environment (Acute) : Not classified
 Hazard to the Aquatic Environment (Chronic) : Not classified

[Label elements]

Pictogram



Signal Word

: Danger

Hazard Statement

: Causes serious eye damage
 : May cause genetic defects
 : Suspected of causing cancer
 : May damage fertility or the unborn child
 : Causes damage to organs
 : Causes damage to organs through prolonged or repeated exposure

Precautionary Statement

: Do not breathe dust/vapours etc.,
 : Do not eat, drink or smoke when using this product.

MSDS for #19994 - UNI POSCA MARKER

Page 2 of 5

PC-1M Brown

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2014/09/18

- : Use personal protective equipment as required. (Refer to Section 8)
- : Get medical advice/attention if you feel unwell.
- : **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- : **IF exposed or concerned:** Get medical advice/attention.
- : **If eye irritation persists:** Get medical advice/attention.
- : Dispose in accordance with all current regulations and standards.

[Other hazards]

No information available.

3. Composition/information on ingredients

[The chemical product is a substance or a mixture] [Chemical nature]	[Component parts]	Mixture Ink [Ink quantity of product : about 2.5g]
Chemical name	Cas No.	Concentration range(wt%)
Water	7732-18-5	50-80
Titanium dioxide	13463-67-7	10-30
1,2-Ethanediol	107-21-1	<10
Ethanol	64-17-5	<10
Additive	Trade secret	<10
Coloring agent	Trade secret	<10
Resin	Trade secret	<10

4. First aid measures

[Description of first aid measures]

- | | |
|--------------|---|
| Eye contact | : Flush eyes with plenty of water for at least 15 minutes.
: Take off the contact lens if possible
: Consult medical advice depending on the symptoms. |
| Skin contact | : Wash skin.
: Consult medical advice depending on the symptoms.
: Thoroughly clean and dry contaminated clothing and shoes before reuse. |
| Ingestion | : Rinse mouth, give plenty of water to dilute. No specific intervention is indicated as compound is not likely to be hazardous by ingestion.
: Consult medical advice depending on the symptoms. |
| Inhalation | : Due to its low vapor pressure inhalation is unlikely at room temperature.
: If not feeling well, move to an area of fresh air and rest.
: Consult medical advice depending on the symptoms. |

[Most important symptoms and effects, both acute and delayed]

No information available.

[Indication of any immediate medical attention and special treatment needed]

No information available.

5. Firefighting measures

[Extinguishing media]

Regular dry chemical, carbon dioxide, water, regular foam

[Special hazards arising from the substance or mixture]

No further relevant information available.

[Advice for firefighters]

Stay upwind and keep out of low areas and avoid inhalation of material or combustion by-products.
Wear suitable protective equipment.

PC-1M Brown

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2014/09/18

6. Accidental release measures**[Personal precautions, protective equipment and emergency procedures]**

Rope off the area to contain the leak and prohibit entrance except for authorized persons.

Wear appropriate protection gear.

Do not work in windward direction.

[Environmental precautions]

Collect leaked material in empty container after leading outflow to a safe area containing earth and sand.

Do not allow leaked material to pollute rivers, lakes, etc.

[Methods and material for containment and cleaning up]

Wipe off by dry cloth and wash with water.

Dispose of pollution or waste in accordance with national, state and local regulations.

[Reference to other sections]

No information available.

7. Handling and storage**[Precautions for safe handling]**

Do not lick or swallow the ink.

Avoid contact with skin and eyes.

Recap after use (if there is a cap), and keep out of the reach of infants.

[Conditions for safe storage, including any incompatibilities]

Keep away from oxidizing materials, ignition sources, high temperature and direct sunlight.

Recommended temperature : 0-40°C

[Specific end use(s)]

No information available.

8. Exposure controls/personal protection**[Control parameters]**

Chemical name	OSHA	ACGIH
Titanium dioxide	-	(TWA)10mg/m ³
Ethanol	-	(TWA)1000ppm
1,2-Ethanediol	-	(STEL)100mg/m ³

[Exposure controls]

Protective equipment	: Not required.
Respiratory protection	: Not required.
Hands protection	: Not required.
Eye protection	: Not required.
Skin protection	: Not required.

9. Physical and chemical properties**[Information on basic physical and chemical properties]**

Color	: Brown
State	: Liquid
Odor	: slight odor
pH	: about 8.1
Boiling point	: No information available.[Water 100°C]

MSDS for #19994 - UNI POSCA MARKER

Page 4 of 5

PC-1M Brown

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2014/09/18

Melting point	: No information available.
Flash point	: No information available.
Autoignition temperature	: No information available.
Explosion limits	: No information available.
Vapor density(air=1)	: No information available.
Density	: about 1.2
Solubility in water	: soluble
Evaporation rate	: No information available.
Volatile	: >60%
[Other information]	No information available.

10. Stability and reactivity

[Chemical stability]	This mixture is stable in normal temperature, a condition of the pressure.
[Reactivity]	No data available.
[Conditions to avoid]	Avoid heat, flames, sparks and other sources of ignition. Avoid direct sunlight and high temperature.
[Incompatible materials]	No information available.
[Hazardous decomposition products]	No information available.
[Possibility of hazardous reactions]	No information available.

11. Toxicological information

[Information on toxicological effects]

Acute toxicity(oral)	
Not classified	: >2000 mg/kg (estimate value)
Acute toxicity(skin)	
Not classified	: >2000 mg/kg (estimate value)
Acute toxicity(inhalation:vapours)	
Not classified	: >20 mg/L (estimate value)
Skin corrosion/irritation	No information available.
Serious eye damage/Eye Irritation	
Titanium dioxide	: Category2B
Ethanol	: Category2A
1,2-Ethanediol	: Category2B
Respiratory sensitizer	No information available.
Skin sensitizer	No information available.
Germ cell mutagenicity	
Ethanol	: Category1B

PC-1M Brown

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2014/09/18

Carcinogenicity
Additive : Category2

Toxic to reproduction
Ethanol : Category1A
Additive : Category2

Specific target organ systemic toxicity(single exposure)
1,2-Ethanediol : Category1

Specific target organ systemic toxicity(repeated exposure)
Titanium dioxide : Category1
Ethanol : Category1
1,2-Ethanediol : Category1

Aspiration hazard
No information available.

Hazard to the Aquatic Environment (Acute)
No information available.

Hazard to the Aquatic Environment (Chronic)
No information available.

12. Ecological information
No information available.

13. Disposal considerations
[Waste treatment methods]
Dispose in accordance with all current regulations and standards.
Do not allow it to flow into the drainages with waste fluid.

14. Transport information
[Environmental hazards] No information available.
[HS Code] 960820
[Special precautions for user] Check the container for any leakage. Load a cargo without a dropping or incurring damage, and take caution against collapse of container.

15. Regulatory information
TSCA : Listed on the TSCA inventory or polymer substance.
[Chemical safety assessment]
Ink or lead are manufactured in accordance with ISO 8124-3 "Safety of Toys - Part 3"

16. Other information

- The information is based on our present knowledge at the date of its publication, and designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.
- This shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

PC-1M Gold

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2014/09/18

SAFETY DATA SHEET

1. Product and Company Identification

[Product name] PC-1M Gold
 [File No.] 100008E
 [Date of issue] 2014/09/18
 [Details of Manufacture]

Manufacture's name: MITSUBISHI PENCIL CO., LTD.
 Address: 5-23-37, HIGASHIOHI, SHINAGAWA, TOKYO, JAPAN
 Telephone number: 03-3458-8281 telefax number: 03-3450-0363
 (Only office hour are available.)

2. Hazards identification

Information of this section is about the ink.

[Classification of the substance or mixture]

PHYSICO-CHEMICAL HAZARDS

Not applicable.

HEALTH HAZARDS

Acute toxicity(oral) : Not classified
 Acute toxicity(skin) : Not classified
 Acute toxicity(inhalation steam) : Not classified
 Skin corrosion/irritation : Not classified
 Serious eye damage/Eye Irritation : Not classified
 Respiratory sensitizer : Classification not possible
 Skin sensitizer : Classification not possible
 Germ cell mutagenicity : Category 1
 Carcinogenicity : Classification not possible
 Toxic to reproduction : Category 1
 Specific target organ systemic toxicity(single exposure) : Classification not possible
 Specific target organ systemic toxicity(repeated exposure) : Category 1
 Aspiration hazard : Not classified

ENVIRONMENTAL HAZARDS

Hazard to the Aquatic Environment (Acute) : Classification not possible
 Hazard to the Aquatic Environment (Chronic) : Not classified

[Label elements]

Pictogram



Signal Word : Danger
 Hazard Statement : May cause genetic defects
 : May damage fertility or the unborn child
 : Causes damage to organs through prolonged or repeated exposure
 Precautionary Statement : Do not breathe dust/vapours etc..
 : Do not eat, drink or smoke when using this product.
 : Use personal protective equipment as required. (Refer to Section 8)
 : Get medical advice/attention if you feel unwell.
 : IF exposed or concerned: Get medical advice/attention.

Item Numbers: 19994-0017

Page 1 of 5
1/5

Item Numbers: 19994-1019

Page 76 of 85

MSDS for #19994 - UNI POSCA MARKER

Page 2 of 5

PC-1M Gold

MITSUBISHI PENCIL CO., LTD.

(Date of issue): 2014/09/18

: Dispose in accordance with all current regulations and standards.
No information available.

[Other hazards]

3. Composition/information on ingredients

[The chemical product is a substance or a mixture] [Chemical nature]	[Component parts]	Mixture Ink [Ink quantity of product : about 2.4g]
Chemical name	Cas No.	Concentration range (wt%)
Water	7732-18-5	50-80
Resin	Trade secret	10-30
Aluminum (as paste)	7429-90-5	<10
Additive	Trade secret	<10
Coloring agent	Trade secret	<10
Polyethylene glycol nonylphenyl ether	9016-45-9	<1

4. First aid measures

[Description of first aid measures]

Eye contact : Flush eyes with plenty of water for at least 15 minutes.
: Take off the contact lens if possible.
: Consult medical advice depending on the symptoms.

Skin contact : Wash skin.
: Consult medical advice depending on the symptoms.
: Thoroughly clean and dry contaminated clothing and shoes before reuse.

Ingestion : Rinse mouth, give plenty of water to dilute. No specific intervention is indicated as compound is not likely to be hazardous by ingestion.
: Consult medical advice depending on the symptoms.

Inhalation : Due to its low vapor pressure inhalation is unlikely at room temperature.
: If not feeling well, move to an area of fresh air and rest.
: Consult medical advice depending on the symptoms.

[Most important symptoms and effects, both acute and delayed]

No information available.

[Indication of any immediate medical attention and special treatment needed]

No information available.

5. Firefighting measures

[Extinguishing media]

Regular dry chemical, carbon dioxide, water, regular foam

[Special hazards arising from the substance or mixture]

No further relevant information available.

[Advice for firefighters]

Stay upwind and keep out of low areas and avoid inhalation of material or combustion by-products.
Wear suitable protective equipment.

6. Accidental release measures

[Personal precautions, protective equipment and emergency procedures]

Rope off the area to contain the leak and prohibit entrance except for authorized persons.
Wear appropriate protection gear.

PC-1M Gold

MITSUBISHI PENCIL CO., LTD.

(Date of issue): 2014/09/18

[Environmental precautions]	Do not work in windward direction. Collect leaked material in empty container after leading outflow to a safe area containing earth and sand.
[Methods and material for containment and cleaning up]	Do not allow leaked material to pollute rivers, lakes, etc. Wipe off by dry cloth and wash with water. Dispose of pollution or waste in accordance with national, state and local regulations.
[Reference to other sections]	No information available.

7. Handling and storage

[Precautions for safe handling]

Do not lick or swallow the ink.
Avoid contact with skin and eyes.
Recap after use (if there is a cap), and keep out of the reach of infants.

[Conditions for safe storage, including any incompatibilities]

Keep away from oxidizing materials, ignition sources, high temperature and direct sunlight.

[Specific end use(s)]

Recommended temperature : 0-40°C
No information available.

8. Exposure controls/personal protection

[Control parameters]

Chemical name	OSHA	ACGIH
Aluminum (as paste)	-	(TWA)10ppm

[Exposure controls]

Protective equipment	: Not required.
Respiratory protection	: Not required.
Hands protection	: Not required.
Eye protection	: Not required.
Skin protection	: Not required.

9. Physical and chemical properties

[Information on basic physical and chemical properties]

Color	: Gold
State	: Liquid
Odor	: slight odor
pH	: about 8.0
Boiling point	: No information available.[Water 100°C]
Melting point	: No information available.
Flash point	: No information available.
Autoignition temperature	: No information available.
Explosion limits	: No information available.
Vapor density(air=1)	: No information available.
Density	: about 1.1
Solubility in water	: soluble
Evaporation rate	: No information available.

MSDS for #19994 - UNI POSCA MARKER

Page 4 of 5

PC-1M Gold

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2014/09/18

Volatile : >70%
[Other information] No information available.

10. Stability and reactivity**[Chemical stability]**

This mixture is stable in normal temperature, a condition of the pressure.

[Reactivity]

No data available.

[Conditions to avoid]

Avoid heat, flames, sparks and other sources of ignition.

Avoid direct sunlight and high temperature.

[Incompatible materials]

No information available.

[Hazardous decomposition products]

No information available.

[Possibility of hazardous reactions]

No information available.

11. Toxicological information**[Information on toxicological effects]****Acute toxicity(oral)**

Not classified

: >2000 mg/kg (estimate value)

Acute toxicity(skin)

Not classified

: >2000 mg/kg (estimate value)

Acute toxicity(inhalation:vapours)

Not classified

: >20 mg/L (estimate value)

Skin corrosion/irritation

No information available.

Serious eye damage/Eye Irritation

No information available.

Respiratory sensitizer

No information available.

Skin sensitizer

No information available.

Germ cell mutagenicity

Additive

: Category1B

Carcinogenicity

No information available.

Toxic to reproduction

Polyethylene glycol nonylphenyl ether : Category2

Additive : Category1A

Specific target organ systemic toxicity(single exposure)

No information available.

PC-1M Gold

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2014/09/18

Specific target organ systemic toxicity(repeated exposure)

Aluminum (as paste) : Category1

Aspiration hazard

No information available.

Hazard to the Aquatic Environment (Acute)

No information available.

Hazard to the Aquatic Environment (Chronic)

No information available.

12. Ecological information

No information available.

13. Disposal considerations**[Waste treatment methods]**

Dispose in accordance with all current regulations and standards.

Do not allow it to flow into the drainages with waste fluid.

14. Transport information**[Environmental hazards]**

No information available.

[HS Code]

960820

[Special precautions for user]

Check the container for any leakage. Load a cargo without a dropping or incurring damage, and take caution against collapse of container.

15. Regulatory information

TSCA : Listed on the TSCA inventory or polymer substance.

[Chemical safety assessment]

Ink or lead are manufactured in accordance with ISO 8124-3 "Safety of Toys - Part 3"

16. Other information

- The information is based on our present knowledge at the date of its publication, and designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.
- This shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

PC-1M Silver

MITSUBISHI PENCIL CO., LTD.

(Date of issue): 2014/09/18

SAFETY DATA SHEET

1. Product and Company Identification

[Product name] PC-1M Silver
 [File No.] 100071E
 [Date of issue] 2014/09/18
 [Details of Manufacture]

Manufacture's name: MITSUBISHI PENCIL CO., LTD.
 Address: 5-23-37, HIGASHIOHI, SHINAGAWA, TOKYO, JAPAN
 Telephone number: 03-3458-8281 telefax number: 03-3450-0363
 (Only office hour are available)

2. Hazards identification

Information of this section is about the ink.

[Classification of the substance or mixture]

PHYSICO-CHEMICAL HAZARDS

Not applicable.

HEALTH HAZARDS

Acute toxicity(oral) : Not classified
 Acute toxicity(skin) : Not classified
 Acute toxicity(inhalation steam) : Not classified
 Skin corrosion/irritation : Not classified
 Serious eye damage/Eye Irritation : Not classified
 Respiratory sensitizer : Classification not possible
 Skin sensitizer : Classification not possible
 Germ cell mutagenicity : Classification not possible
 Carcinogenicity : Classification not possible
 Toxic to reproduction : Category2
 Specific target organ systemic toxicity(single exposure) : Classification not possible
 Specific target organ systemic toxicity(repeated exposure) : Category1
 Aspiration hazard : Not classified

ENVIRONMENTAL HAZARDS

Hazard to the Aquatic Environment (Acute) : Classification not possible
 Hazard to the Aquatic Environment (Chronic) : Not classified

[Label elements]

Pictogram



Signal Word : Danger
 Hazard Statement : Suspected of damaging fertility or the unborn child
 : Causes damage to organs through prolonged or repeated exposure
 Precautionary Statement : Do not breathe dust/vapours etc..
 : Do not eat, drink or smoke when using this product.
 : Use personal protective equipment as required.(Refer to Section 8)
 : Get medical advice/attention if you feel unwell.
 : IF exposed or concerned: Get medical advice/attention.
 : Dispose in accordance with all current regulations and standards.

MSDS for #19994 - UNI POSCA MARKER

PC-1M Silver

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2014/09/18

[Other hazards] No information available.

3. Composition/information on ingredients

[The chemical product is a substance or a mixture]	[Component parts]	Mixture Ink [Ink quantity of product :about 2.3g]
[Chemical nature]	Cas No.	Concentration range(wt%)
Chemical name		
Water	7732-18-5	50-80
Resin	Trade secret	10-30
Aluminum (as paste)	7429-90-5	<10
Additive	Trade secret	<10
Polyethylene glycol nonylphenyl ether	9016-45-9	<1

4. First aid measures

[Description of first aid measures]

- Eye contact** : Flush eyes with plenty of water for at least 15 minutes.
: Take off the contact lens if possible
: Consult medical advice depending on the symptoms.
- Skin contact** : Wash skin.
: Consult medical advice depending on the symptoms.
: Thoroughly clean and dry contaminated clothing and shoes before reuse.
- Ingestion** : Rinse mouth, give plenty of water to dilute. No specific intervention is indicated as compound is not likely to be hazardous by ingestion.
: Consult medical advice depending on the symptoms.
- Inhalation** : Due to its low vapor pressure inhalation is unlikely at room temperature.
: If not feeling well, move to an area of fresh air and rest.
: Consult medical advice depending on the symptoms.

[Most important symptoms and effects, both acute and delayed]

No information available.

[Indication of any immediate medical attention and special treatment needed]

No information available.

5. Firefighting measures

[Extinguishing media]

Regular dry chemical, carbon dioxide, water, regular foam

[Special hazards arising from the substance or mixture]

No further relevant information available.

[Advice for firefighters]

Stay upwind and keep out of low areas and avoid inhalation of material or combustion by-products.

Wear suitable protective equipment.

6. Accidental release measures

[Personal precautions, protective equipment and emergency procedures]

Rope off the area to contain the leak and prohibit entrance except for authorized persons.

Wear appropriate protection gear.

Do not work in windward direction.

[Environmental precautions]

Collect leaked material in empty container after leading outflow to a safe area containing earth and sand.

PC-1M Silver

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2014/09/18

[Methods and material for containment and cleaning up] Do not allow leaked material to pollute rivers, lakes, etc.
Wipe off by dry cloth and wash with water.
Dispose of pollution or waste in accordance with national, state and local regulations.

[Reference to other sections] No information available.

7. Handling and storage**[Precautions for safe handling]**

Do not lick or swallow the ink.
Avoid contact with skin and eyes.
Recap after use (if there is a cap), and keep out of the reach of infants.

[Conditions for safe storage, including any incompatibilities]

Keep away from oxidizing materials, ignition sources, high temperature and direct sunlight.

[Specific end use(s)]

Recommended temperature : 0-40°C
No information available.

8. Exposure controls/personal protection**[Control parameters]**

Chemical name	OSHA	ACGIH
Aluminum (as paste)	-	(TWA) 10ppm

[Exposure controls]

Protective equipment	: Not required.
Respiratory protection	: Not required.
Hands protection	: Not required.
Eye protection	: Not required.
Skin protection	: Not required.

9. Physical and chemical properties**[Information on basic physical and chemical properties]**

Color	: Silver
State	: Liquid
Odor	: slight odor
pH	: about 8.0
Boiling point	: No information available. [Water 100°C]
Melting point	: No information available.
Flash point	: No information available.
Autoignition temperature	: No information available.
Explosion limits	: No information available.
Vapor density (air=1)	: No information available.
Density	: about 1.1
Solubility in water	: soluble
Evaporation rate	: No information available.
Volatile	: >70%
[Other information]	No information available.

MSDS for #19994 - UNI POSCA MARKER

PC-1M Silver

MITSUBISHI PENCIL CO., LTD.

[Date of Issue]: 2014/09/18

10. Stability and reactivity**[Chemical stability]****This mixture is stable in normal temperature, a condition of the pressure.****[Reactivity]****No data available.****[Conditions to avoid]****Avoid heat, flames, sparks and other sources of ignition.****Avoid direct sunlight and high temperature.****[Incompatible materials]****No information available.****[Hazardous decomposition products]****No information available.****[Possibility of hazardous reactions]****No information available.****11. Toxicological information****[Information on toxicological effects]****Acute toxicity(oral)****Not classified****: >2000 mg/kg (estimate value)****Acute toxicity(skin)****Not classified****: >2000 mg/kg (estimate value)****Acute toxicity(inhalation:vapours)****Not classified****: >20 mg/L (estimate value)****Skin corrosion/irritation****No information available.****Serious eye damage/Eye Irritation****No information available.****Respiratory sensitizer****No information available.****Skin sensitizer****No information available.****Germ cell mutagenicity****No information available.****Carcinogenicity****No information available.****Toxic to reproduction****Polyethylene glycol nonylphenyl ether : Category2****Additive : Category2****Specific target organ systemic toxicity(single exposure)****No information available.****Specific target organ systemic toxicity(repeated exposure)****Aluminum (as paste) : Category1**

PC-1M Silver

MITSUBISHI PENCIL CO., LTD.

[Date of Issue]: 2014/09/18

Aspiration hazard
No information available.

Hazard to the Aquatic Environment (Acute)
No information available.

Hazard to the Aquatic Environment (Chronic)
No information available.

12. Ecological information
No information available.

13. Disposal considerations
[Waste treatment methods]
Dispose in accordance with all current regulations and standards.
Do not allow it to flow into the drainages with waste fluid.

14. Transport information
[Environmental hazards] No information available.
[HS Code] 960820
[Special precautions for user] Check the container for any leakage. Load a cargo without a dropping or incurring damage, and take caution against collapse of container.

15. Regulatory information
TSCA : Listed on the TSCA inventory or polymer substance.
[Chemical safety assessment]
Ink or lead are manufactured in accordance with ISO 8124-3 "Safety of Toys - Part 3"

16. Other information

- The information is based on our present knowledge at the date of its publication, and designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.
- This shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.