

100167E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]:2017/05/19

SAFETY DATA SHEET

1. Product and Company Identification

[Product name] PC-1MR White 19994-1023
 [File No.] 100167E
 [Date of issue] 2017/05/19
 [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..

100167E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2017/05/19

- : 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 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]	Mixture
[Chemical nature]	[Component parts] Ink [Ink quantity of product :about 2.3g]
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
1-Propanol	71-23-8 < 1
2-Propanol	67-63-0 < 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.

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MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2017/05/19

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 the leeward.

[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	: White
State	: Liquid
Odor	: slight odor
pH	: about 7.9
Boiling point	: No information available.[Water 100.0°C]

100167E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2017/05/19

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
Respiratory sensitizer	No information available.
Skin sensitizer	No information available.
Germ cell mutagenicity	
Ethanol	: Category1B
Carcinogenicity	
1-Propanol	: Category2

100167E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2017/05/19

Toxic to reproduction

2-Propanol : Category2
Ethanol : Category1A
1-Propanol : 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

Follow all regulation in your country.

[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.

100158E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2017/05/19

SAFETY DATA SHEET

1. Product and Company Identification

[Product name] **PC-1MR Black** 19994-2023
 [File No.] 100158E
 [Date of issue] 2017/05/19
 [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 : Not classified
 Respiratory sensitizer : Classification not possible
 Skin sensitizer : Classification not possible
 Germ cell mutagenicity : Category 1
 Carcinogenicity : Category 2
 Toxic to reproduction : Category 1
 Specific target organ systemic toxicity(single exposure) : Category 1
 Specific target organ systemic toxicity(repeated exposure) : Category 1
 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.**

100158E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2017/05/19

- : 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.

[Other hazards]

No information available.

3. Composition/information on ingredients

[The chemical product is a substance or a mixture]	[Component parts]	Mixture
[Chemical nature]	Chemical name	Ink[Ink quantity of product :about 1.9g]
	Gas No.	Concentration range(wt%)
Water	7732-18-5	50-80
1,2-Ethanediol	107-21-1	< 10
Carbon black	1333-86-4	< 10
Ethanol	64-17-5	< 10
1-Propanol	71-23-8	< 1
2-Propanol	67-63-0	< 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.

100158E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2017/05/19

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 the leeward.

[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/m ³
Ethanol	-	(TWA)1000ppm
1,2-Ethenediol	-	(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	: Black
State	: Liquid
Odor	: slight odor
pH	: about 8.6
Boiling point	: No information available.[Water 100.0°C]
Melting point	: No information available.

100158E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2017/05/19

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	: >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	
Ethanol	: Category1B
Carcinogenicity	
Carbon black	: Category2
1-Propanol	: Category2

100158E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]:2017/05/19

Toxic to reproduction

2-Propanol : Category2
Ethanol : Category1A
1-Propanol : Category2

Specific target organ systemic toxicity(single exposure)

1,2-Ethanediol : Category1

Specific target organ systemic toxicity(repeated exposure)

Carbon black : 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

Follow all regulation in your country.
[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.

100159E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2017/05/19

SAFETY DATA SHEET

19994-2983

1. Product and Company Identification

[Product name] PC-1MR Red

[File No.] 100159E

[Date of issue] 2017/05/19

[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..

100159E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2017/05/19

- : 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 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]	Mixture
[Chemical nature]	Ink [Ink quantity of product :about 2.0g]
Chemical name	Cas No.
	Concentration range(wt%)
Water	7732-18-5
1,2-Ethanediol	107-21-1
Ethanol	64-17-5
Titanium dioxide	13463-67-7
1-Propanol	71-23-8
2-Propanol	67-63-0

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.

100159E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2017/05/19

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 the leeward.

[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	: Red
State	: Liquid
Odor	: slight odor
pH	: about 7.9
Boiling point	: No information available.[Water 100.0°C]

100159E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2017/05/19

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-Ethanediol

: Category2B

Respiratory sensitizer

No information available.

Skin sensitizer

No information available.

Germ cell mutagenicity

Ethanol

: Category1B

Carcinogenicity

1-Propanol

: Category2

100159E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]:2017/05/19

Toxic to reproduction

2-Propanol : Category2
Ethanol : Category1A
1-Propanol : 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

Follow all regulation in your country.

[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.

100165E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]:2017/05/19

SAFETY DATA SHEET

19994-3063

1. Product and Company Identification

[Product name] PC-1MR Pink

[File No.] 100165E

[Date of issue] 2017/05/19

[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
Precautionary Statement	: Causes damage to organs through prolonged or repeated exposure
	: Do not breathe dust/vapours etc..

100165E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2017/05/19

- : 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 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]	Mixture
[Chemical nature]	Ink [Ink quantity of product :about 2.1g]
Chemical name	Cas No. Concentration range(wt%)
Water	7732-18-5 50-80
1,2-Ethandiol	107-21-1 < 10
Titanium dioxide	13463-67-7 < 10
1-Propanol	71-23-8 < 1
2-Propanol	67-63-0 < 1
Ethanol	64-17-5 < 1
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.

100165E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2017/05/19

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 the leeward.
[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-Ethandiol	-	(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.

100165E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2017/05/19

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

Color	: Pink
State	: Liquid
Odor	: slight odor
pH	: about 7.9
Boiling point	: No information available.[Water 100.0°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 1.2
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
1,2-Ethenediol	: Category2B
Respiratory sensitizer	
	No information available.

100165E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]:2017/05/19

Skin sensitizer

No information available.

Germ cell mutagenicity

Ethanol : Category1B

Carcinogenicity

1-Propanol : Category2

Toxic to reproduction

Polyethylene glycol nonylphenyl ether : Category2

2-Propanol : Category2

Ethanol : Category1A

1-Propanol : Category2

Specific target organ systemic toxicity(single exposure)

1,2-Ethenediol : Category1

Specific target organ systemic toxicity(repeated exposure)

Titanium dioxide : Category1

1,2-Ethenediol : 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

Follow all regulation in your country.

100165E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]:2017/05/19

[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.

100163E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2017/05/19

SAFETY DATA SHEET

1. Product and Company Identification

[Product name] **PC-1MR Yellow** 19994-4013
 [File No.] **100163E**
 [Date of issue] **2017/05/19**
 [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..**

100163E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2017/05/19

- : 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 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]	Mixture
[Chemical nature]	Ink[Ink quantity of product :about 2.0g]
[Component parts]	Concentration range(wt%)
Cas No.	
Chemical name	
Water	50-80
Titanium dioxide	10-30
1,2-Ethandiol	< 10
Ethanol	< 10
1-Propanol	< 1
2-Propanol	< 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.

100163E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]:2017/05/19

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 the leeward.

[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	: No information available.
pH	: about 7.9
Boiling point	: No information available.[Water 100.0°C]

100163E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2017/05/19

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-Ethanediol

: Category2B

Respiratory sensitizer

No information available.

Skin sensitizer

No information available.

Germ cell mutagenicity

Ethanol

: Category1B

Carcinogenicity

1-Propanol

: Category2

100163E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2017/05/19

Toxic to reproduction

2-Propanol : Category2
Ethanol : Category1A
1-Propanol : 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

Follow all regulation in your country.

[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.

100164E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2017/05/19

SAFETY DATA SHEET

1. Product and Company Identification

[Product name] PC-1MR Orange 19994-4513
 [File No.] 100164E
 [Date of issue] 2017/05/19
 [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

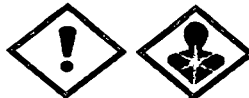
Acute toxicity(oral) : Not classified
 Acute toxicity(skin) : Not classified
 Acute toxicity(inhalation steam) : Not classified
 Skin corrosion/irritation : Not classified
 Serious eye damage/Eye Irritation : Category2
 Respiratory sensitizer : Classification not possible
 Skin sensitizer : Classification 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..

100164E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2017/05/19

- : 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 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 Ink [Ink quantity of product :about 2.1g] Concentration range(wt%)
[Chemical nature]	Cas No.	
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
1-Propanol	71-23-8	< 1
2-Propanol	67-63-0	< 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.

100164E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2017/05/19

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 the leeward.

[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	: Orange
State	: Liquid
Odor	: slight odor
pH	: about 8.1
Boiling point	: No information available.[Water 100.0°C]

100164E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2017/05/19

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-Ethanediol

: Category2B

Respiratory sensitizer

No information available.

Skin sensitizer

No information available.

Germ cell mutagenicity

Ethanol

: Category1B

Carcinogenicity

1-Propanol

: Category2

100164E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2017/05/19

Toxic to reproduction

2-Propanol : Category2
Ethanol : Category1A
1-Propanol : 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

Follow all regulation in your country.

[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.

100160E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2017/05/19

SAFETY DATA SHEET

1. Product and Company Identification

[Product name] PC-1MR Blue 19994-5013
 [File No.] 100160E
 [Date of issue] 2017/05/19
 [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..

100160E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2017/05/19

- : 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 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 2.1g]
	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
	1-Propanol	71-23-8	< 1
	2-Propanol	67-63-0	< 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.

100160E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2017/05/19

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 the leeward.

[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	: Blue
State	: Liquid
Odor	: slight odor
pH	: about 8.4
Boiling point	: No information available.[Water 100.0°C]

100160E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2017/05/19

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

Carcinogenicity

1-Propanol : Category2

100160E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2017/05/19

Toxic to reproduction

2-Propanol : Category2
Ethanol : Category1A
1-Propanol : 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

Follow all regulation in your country.

[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.

100050E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]:2016/11/30

SAFETY DATA SHEET

1. Product and Company Identification

[Product name] PC-1M Light blue 19994-5027
 [File No.] 100050E
 [Date of issue] 2016/11/30
 [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..

100050E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2016/11/30

- : 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 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]	Mixture
[Chemical nature]	Ink [Ink quantity of product :about 2.7g]
Chemical name	Component parts
	Cas No.
	Concentration range(wt%)
Water	7732-18-5
Titanium dioxide	13463-67-7
1,2-Ethanediol	107-21-1
2-Propanol	67-63-0
Ethanol	64-17-5
1-Propanol	71-23-8

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.

100050E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]:2016/11/30

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 the leeward.

[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
2-Propanol	-	(TWA)200ppm (STEL)400ppm
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 blue
State	: Liquid
Odor	: slight odor

100050E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2016/11/30

pH	: about 8.4
Boiling point	: No information available.[Water 100.0°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 1.2
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
2-Propanol	: Category2A
Ethanol	: Category2A
1,2-Ethanediol	: Category2B
Respiratory sensitizer	No information available.
Skin sensitizer	No information available.

100050E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2016/11/30

Germ cell mutagenicity
Ethanol : Category1B

Carcinogenicity
1-Propanol : Category2

Toxic to reproduction
2-Propanol : Category2
Ethanol : Category1A
1-Propanol : Category2

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

Specific target organ systemic toxicity(repeated exposure)
Titanium dioxide : Category1
2-Propanol : Category2
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

Follow all regulation in your country.

[Chemical safety assessment]

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

100050E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2016/11/30

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.

100162E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]:2017/05/19

SAFETY DATA SHEET

1. Product and Company Identification

19994-6063

[Product name] PC-1MR Violet

[File No.] 100162E

[Date of issue] 2017/05/19

[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..

100162E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2017/05/19

- : 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 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]	Mixture
[Chemical nature]	Ink [Ink quantity of product :about 2.0g]
Chemical name	Cas No. Concentration range(wt%)
Water	7732-18-5 50-80
1,2-Ethanediol	107-21-1 < 10
Titanium dioxide	13463-67-7 < 10
1-Propanol	71-23-8 < 1
2-Propanol	67-63-0 < 1
Ethanol	64-17-5 < 1
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.

100162E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2017/05/19

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 the leeward.
[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-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.	

100162E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2017/05/19

9. Physical and chemical properties

[Information on basic physical and chemical properties]

Color	: Violet
State	: Liquid
Odor	: slight odor
pH	: about 7.8
Boiling point	: No information available.[Water 100.0°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

1,2-Ethanediol : Category2B

Respiratory sensitizer

No information available.

100162E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]:2017/05/19

Skin sensitizer

No information available.

Germ cell mutagenicity

Ethanol : Category1B

Carcinogenicity

1-Propanol : Category2

Toxic to reproduction

Polyethylene glycol nonylphenyl ether : Category2

2-Propanol : Category2

Ethanol : Category1A

1-Propanol : Category2

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

Follow all regulation in your country.

100162E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2017/05/19

[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.

100162E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]:2017/05/19

SAFETY DATA SHEET

1. Product and Company Identification

19994-6063

[Product name] PC-1MR Violet

[File No.] 100162E

[Date of issue] 2017/05/19

[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

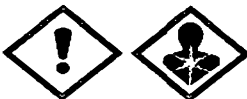
ENVIRONMENTAL HAZARDS

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..

100162E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2017/05/19

- : 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 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]	Mixture
[Chemical nature]	Ink [Ink quantity of product :about 2.0g]
Chemical name	Cas No. Concentration range(wt%)
Water	7732-18-5 50-80
1,2-Ethanediol	107-21-1 < 10
Titanium dioxide	13463-67-7 < 10
1-Propanol	71-23-8 < 1
2-Propanol	67-63-0 < 1
Ethanol	64-17-5 < 1
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.

100162E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2017/05/19

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 the leeward.
- [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-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.

100162E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2017/05/19

9. Physical and chemical properties

[Information on basic physical and chemical properties]

Color	: Violet
State	: Liquid
Odor	: slight odor
pH	: about 7.8
Boiling point	: No information available.[Water 100.0°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

1,2-Ethanediol : Category2B

Respiratory sensitizer

No information available.

100162E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]:2017/05/19

Skin sensitizer

No information available.

Germ cell mutagenicity

Ethanol : Category1B

Carcinogenicity

1-Propanol : Category2

Toxic to reproduction

Polyethylene glycol nonylphenyl ether : Category2

2-Propanol : Category2

Ethanol : Category1A

1-Propanol : Category2

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

Follow all regulation in your country.

100162E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2017/05/19

[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.

100161E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2017/05/19

SAFETY DATA SHEET

1. Product and Company Identification

[Product name] PC-1MR Green 19994-7013
 [File No.] 100161E
 [Date of issue] 2017/05/19
 [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..

100161E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2017/05/19

- : 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 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]	Mixture
[Chemical nature]	Ink [Ink quantity of product :about 2.1g]
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
1-Propanol	71-23-8 < 1
2-Propanol	67-63-0 < 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.

100161E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2017/05/19

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 the leeward.

[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	: Green
State	: Liquid
Odor	: No information available.
pH	: about 8.0
Boiling point	: No information available.[Water 100.0°C]

100161E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2017/05/19

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
Carcinogenicity	
1-Propanol	: Category2

100161E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]:2017/05/19

Toxic to reproduction

2-Propanol : Category2
Ethanol : Category1A
1-Propanol : 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

Follow all regulation in your country.

[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.

100172E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2017/05/19

SAFETY DATA SHEET

1. Product and Company Identification

[Product name] PC-1MR Gold
 [File No.] 100172E 19994-9013
 [Date of issue] 2017/05/19
 [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 : Not classified
 Respiratory sensitizer : Classification not possible
 Skin sensitizer : Classification not possible
 Germ cell mutagenicity : Category1
 Carcinogenicity : Classification not possible
 Toxic to reproduction : Category1
 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 : 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.

100172E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2017/05/19

- : [F exposed or concerned: 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
[Chemical nature]	Cas No.	Ink[Ink quantity of product :about 1.9g] Concentration range(wt%)
Chemical name		50-80
Water	7732-18-5	< 10
Aluminum (as paste)	7429-90-5	< 10
Glycerine	56-81-5	< 10
Propanol, 1-methoxy-	107-98-2	< 1
2-Propanol	67-63-0	< 1
Ethanol	64-17-5	< 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.

100172E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2017/05/19

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 the leeward.

[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
Aluminum (as paste)	-	(TWA)10ppm
Glycerine	-	(TWA)10mg/m3
Propanol, 1-methoxy-	-	(TWA)100ppm (STEL)150ppm

[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	: No information available.
pH	: about 8.2
Boiling point	: No information available.[Water 100.0°C]

100172E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2017/05/19

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	No information available.
Respiratory sensitizer	No information available.
Skin sensitizer	No information available.
Germ cell mutagenicity	
Ethanol	: Category 1B
Carcinogenicity	No information available.

100172E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]:2017/05/19

Toxic to reproduction

2-Propanol : Category2
Ethanol : Category1A

Specific target organ systemic toxicity(single exposure)

No information available.

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**

Follow all regulation in your country.

[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.

100173E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2017/05/19

SAFETY DATA SHEET

1. Product and Company Identification

[Product name] PC-1MR Silver 19994-9333
 [File No.] 100173E
 [Date of issue] 2017/05/19
 [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 : 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.

100173E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2017/05/19

[Other hazards] : Dispose in accordance with all current regulations and standards.
No information available.

3. Composition/information on ingredients

[The chemical product is a substance or a mixture]	[Component parts]	Mixture
[Chemical nature]	Gas No.	Ink[Ink quantity of product :about 1.9g]
Chemical name		Concentration range(wt%)
Water	7732-18-5	50-80
Aluminum (as paste)	7429-90-5	< 10
Glycerine	56-81-5	< 10
Propanol, 1-methoxy-	107-98-2	< 10
2-Propanol	67-63-0	< 1
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.

100173E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2017/05/19

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 the leeward.

[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
Aluminum (as paste)	-	(TWA)10ppm
Glycerine	-	(TWA)10mg/m ³
Propanol, 1-methoxy-	-	(TWA)100ppm (STEL)150ppm

[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 8.3
Boiling point	: No information available.[Water 100.0°C]

100173E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2017/05/19

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	No information available.
Respiratory sensitizer	No information available.
Skin sensitizer	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.

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MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2017/05/19

Toxic to reproduction

Polyethylene glycol nonylphenyl ether : Category2

2-Propanol : Category2

Specific target organ systemic toxicity(single exposure)

No information available.

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]

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[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

Follow all regulation in your country.

[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.