# SAFETY DATA SHEET

1. Product and Company Identification

[Product name] PC-3M White

[File No.] 100060E 19994-1021

[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

### 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..

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: 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 easys 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 st	ibstance or a mixturej	Mixture
[Chemical nature]	[Component parts]	Ink[ Ink quantity of product :about 4.3g]
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
2-Propanol	67-63-0	< 10
Ethanol	64-17-5	< 10
1-Propanol	71-23-8	< 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]: 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.

Collect leaked material in empty container after leading outflow to a safe area [Environmental precautions]

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

No information available. [Reference to other sections]

# 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

No information available. [Specific end use(s)]

# 8. Exposure controls/personal protection

[Control parameters]

Chemical name	OSHA	ACGIH
Titanium dioxide	_	(TWA)10mg/m3
2-Propanol	-	(TWA)200ppm (STEL)400ppm
Ethanol	<del>-</del>	(TWA)1000ppm
1 2-Ethanediol	_	(STEL)100mg/m3

[Exposure controls]

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

# 9. Physical and chemical properties

[Imformation on basic physical and chemical properties]

: White Color : Liquid State : slight odor Odor

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pH : about 8.1

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 1.3 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
2-Propanol : Category2A
Ethanol : Category2A
1.2-Ethanediol : Category2B

Respiratory sensitizer

No information available.

Skin sensitizer

No information available.

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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)

Titanium dioxide : Category3
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 causion 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"

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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.

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[Date of issue]: 2016/11/30 MITSUBISHI PENCIL CO., LTD. 100001E

## SAFETY DATA SHEET

1. Product and Company Identification

[Product name] PC-3M Black

19994-2021 [File No.] 100001E

2016/11/30 [Date of issue]

[Details of Manufacture]

Manufacture's name: MITSUBISHI PENCIL CO., LTD.

5-23-37, HIGASHIOHI, SHINAGAWA, TOKYO, JAPAN Address: 03-3450-0363 03-3458-6281 telefax number:

Telephone number: (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** 

: Not classified 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

: Classification not possible Respiratory sensitizer : Classification not possible Skin sensitizer

: Category1 Germ cell mutagenicity : Category2 Carcinogenicity : Category1 Toxic to reproduction Specific target organ systemic toxicity(single exposure) : Category1 : Category1 Specific target organ systemic toxicity(repeated exposure) : Not classified Aspiration hazard

ENVIRONMENTAL HAZARDS

: Not classified Hazard to the Aquatic Environment (Acute)

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

[Label elements]

Pictogram



Signal Word : Danger

: May cause genetic defects Hazard Statement

: 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.

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MITSUBISHI PENCIL CO., LTD.

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: 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

[ I ne chemical product is a	substance or a mixture]	Mixture
[Chemical nature]	[Component parts]	Ink[ Ink quantity of product :about 3.8g]
Chemical name	Cas No.	Concentration range(wt%)
Water	7732-18-5	50-80
1.2-Ethanediol	107-21-1	< 10
2-Propanol	67-63-0	< 10
Carbon black	1333-86-4	< 10
Ethanol	64-17-5	< 10
1-Propanol	71-23-8	< 1

#### 4. First aid measures

Ingestion

[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.

: 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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#### 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]

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Chemical name	OSHA	ACGIH
Carbon black	-	(TWA)3.5mg/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

[Imformation on basic physical and chemical properties]

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

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**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 : >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 : Category1B

Carcinogenicity

Carbon black : Category2 1-Propanol : Category2

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[Date of issue]: 2016/11/30 MITSUBISHI PENCIL CO., LTD. 100001E

Toxic to reproduction

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

Specific target organ systemic toxicity(single exposure)

: Category1 2-Propanol : Category1 1,2-Ethanediol

Specific target organ systemic toxicity(repeated exposure)

: Category1 Carbon black : Category2 2-Propanol : Category1 Ethanol : Category1 1,2-Ethanediol

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

No information available. [Environmental hazards]

[HS Code]

Check the container for any leakage. Load a cargo without a dropping or [Special precautions for user]

incurring damage, and take causion 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.

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MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2016/11/30

# SAFETY DATA SHEET

# 1. Product and Company Identification

[Product name]

PC-3M Red

[File No.]

100003E

19994-2981

[Date of issue]

2016/11/30

[Details of Manufacture]

Manufacture's name: MITSUBISHI PENCIL CO., LTD.

Address:

5-23-37, HIGASHIOHI, SHINAGAWA, TOKYO, JAPAN

: Not classified

: Not classified

: Not classified

: Not classified

: Classification not possible

: Classification not possible

: Category2

: Category1

: Category2

: Category1

: Category1

: Category1

: Not classified

: Not classified

: Not classified

Telephone number: 03-3458-6281 (Only office hour are available.)

telefax number: 03-3450-0363

#### 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)
Acute toxicity(skin)

Acute toxicity(inhalation steam)
Skin corrosion/irritation

Serious eye damage/Eye Irritation Respiratory sensitizer

Skin sensitizer

Germ cell mutagenicity
Carcinogenicity

Toxic to reproduction

Specific target organ systemic toxicity(single exposure)

Specific target organ systemic toxicity(repeated exposure)
Aspiration hazard

ENVIRONMENTAL HAZARDS

Hazard to the Aquatic Environment (Acute)
Hazard to the Aquatic Environment (Chronic)

[Label elements]

Pictogram



Signal Word

Item Numbers: 19994-2981

: 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..

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: 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 easys 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 4.0g]
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.

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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
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

[Imformation on basic physical and chemical properties]

Color : Red State : Liquid Odor : slight odor pН : about 8.2

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

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2016/11/30

: No information available. Melting point : No information available. Flash point : No information available. Autoignition temperature : No information available. **Explosion limits** : No information available. Vapor density(air=1)

: about 1.1 Density : soluble Solubility in water

: No information available. Evaporation rate

: >70% Volatile

No information available. [Other information]

10. Stability and reactivity

This mixture is stable in normal temperature, a condition of the pressure. [Chemical stability]

No data available. [Reactivity]

Avoid heat, flames, sparks and other sources of ignition. [Conditions to avoid]

Avoid direct sunlight and high temperature.

No information available. [Incompatible materials] No information available. [Hazardous decomposition products] No information available. [Possibility of hazardous reactions]

11. Toxicological information

[Information on toxicological effects]

Acute toxicity(oral)

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

Acute toxicity(skin)

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

Acute toxicity(inhalation:vapours)

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

Skin corrosion/irritation No information available.

Serious eye damage/Eye Irritation

: Category2B Titanium dioxide : Category2A Ethanol : Category2B 1,2-Ethanediol

Respiratory sensitizer No information available.

Skin sensitizer

No information available.

Germ cell mutagenicity

: Category1B Ethanoi

Carcinogenicity

: Category2 1-Propanol

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]

[Special precautions for user] Check the container for any leakage. Load a cargo without a dropping or

incurring damage, and take causion 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.

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MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2016/11/30

# SAFETY DATA SHEET

# 1. Product and Company Identification

[Product name]

PC-3M Pink

19994-3061

[File No.]

100004E

[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: (Only office hour are available.)

03-3458-6281

telefax number: 03-3450-0363

# 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

Item Numbers: 19994-3061



Signal Word

: Danger

Hazard Statement

: Causes serious eye damage: May cause genetic defects: Suspected of causing cancer

May damage fertility or the unborn child

: Causes damage to organs

: Causes damage to organs through prolonged or repeated exposure

Precautionary Statement

: Do not breathe dust/vapours etc..

: Do not eat, drink or smoke when using this product.

: 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 easys 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 4.0g]	
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	
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.

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### 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

 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.

Item Numbers: 19994-3061 Page 3 of 6

# 9. Physical and chemical properties

[Imformation on basic physical and chemical properties]

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

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 Ethanol : Category2A 1,2-Ethanediol : Category2B

Respiratory sensitizer

No information available.

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MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2016/11/30

Skin sensitizer

No information available.

Germ cell mutagenicity

Ethanol

: Category1B

Carcinogenicity

1-Propanol : Category2

Toxic to reproduction

Polyethylene glycol nonylphenyl : Category2

ether

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 causion against collapse of container.

# 15. Regulatory information

Follow all regulation in your country.

MITSUBISHI PENCIL CO., LTD.

[Date of issue]:2016/11/30

[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.

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# SAFETY DATA SHEET

1. Product and Company Identification

[Product name] PC-3M Yellow 19994-4011

[File No.] 100005E [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-

03-3458-6281 telefax number: 03-3450-0363

#### 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..

Item Numbers: 19994-4011 Page 1,0f<sub>5</sub>5

: 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 easys 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 3.8g]	
Chemical name	Cas No.	Concentration range(wt%)	
Water	7732-18-5	50-80	
1.2-Ethanediol	107-21-1	< 10	
Ethanol	64-17-5	< 10	
Titanium dioxide	13463-67-7	< 10	
1~Propanol	71-23-8	< 1	
2-Propanol	67-63-0	< 1	

#### 4. First aid measures

[Description of first aid measures]

Eve 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.

Page 2 of 5 Item Numbers: 19994-4011 2/5

#### 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

[Imformation on basic physical and chemical properties]

Color : Yellow
State : Liquid
Odor : slight odor
pH : about 8.2

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

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100005F

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2016/11/30

Melting point : No information available. Flash point : No information available. Autoignition temperature : No information available. Explosion limits : No information available. Vapor density(air=1) : No information available.

Density : about 1.1 Solubility in water : soluble

Evaporation rate : No information available.

Volatile : >70%

[Other information] No information available.

10. Stability and reactivity

[Chemical stability] This mixture is stable in normal temperature, a condition of the pressure.

[Reactivity] No data available.

[Conditions to avoid] Avoid heat, flames, sparks and other sources of ignition.

Avoid direct sunlight and high temperature.

[Incompatible materials] No information available. [Hazardous decomposition products] No information available. [Possibility of hazardous reactions] No information available.

11. Toxicological information

[Information on toxicological effects]

Acute toxicity(oral)

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

Acute toxicity(skin)

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

Acute toxicity(inhalation:vapours)

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

Skin corrosion/irritation No information available.

Serious eye damage/Eye Irritation

Titanium dioxide : Category2B Ethanol : Category2A 1,2-Ethanediol : Category2B

Respiratory sensitizer

No information available.

Skin sensitizer

No information available.

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)

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 causion 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.

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## SAFETY DATA SHEET

1. Product and Company Identification

[Product name] PC-3M Orange

[File No.] 100043E [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: (Only office hour are available.) 03-3458-6281 telefax number: 03-3450-0363

19994-4511

# 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

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

: Category1

Precautionary Statement

: Do not breathe dust/vapours etc..

Page 1 of 5 Item Numbers: 19994-4511 1/5

: 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 easys 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.

Mixture

[Other hazards] No information available.

## 3. Composition/information on ingredients

The chemical product is a substa	nce or a mixtures	IMIXCO O
[Chemical nature]	[Component parts]	Ink[ Ink quantity of product :about 3.8g]
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
	67-63-0	< 1
2-Propanol	0, 00 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.

Item Numbers: 19994-4511 Page 2 of 5

# 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

[Imformation on basic physical and chemical properties]

Color : Orange State : Liquid Odor : slight odor pН : about 8.3

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

Page 3 of 5 Item Numbers: 19994-4511

Melting point : No information available.

Flash point : No information available.

Autoignition temperature : No information available.

Explosion limits : No information available.

Vapor density(air=1) : No information available.

Density : about 1.1 Solubility in water : soluble

Evaporation rate : No information available.

Volatile : >70%

[Other information] No information available.

10. Stability and reactivity

[Chemical stability] This mixture is stable in normal temperature, a condition of the pressure.

[Reactivity] No data available.

[Conditions to avoid] Avoid heat, flames, sparks and other sources of ignition.

Avoid direct sunlight and high temperature.

[Incompatible materials] No information available.

[Hazardous decomposition products] No information available.

[Possibility of hazardous reactions] No information available.

11. Toxicological information

[Information on toxicological effects]

Acute toxicity(oral)

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

Acute toxicity(skin)

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

Acute toxicity(inhalation:vapours)

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

Skin corrosion/irritation

No information available.

Serious eye damage/Eye Irritation

Titanium dioxide : Category2B Ethanol : Category2A 1.2-Ethanediol : Category2B

Respiratory sensitizer

No information available.

Skin sensitizer

No information available.

Germ cell mutagenicity

Ethanol : Category1B

Carcinogenicity

1-Propanol : Category2

Toxic to reproduction

2-Propano! : 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 : Category! 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]

[Special precautions for user] Check the container for any leakage. Load a cargo without a dropping or incurring damage, and take causion 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.

Page 5 of 5 5/5 Item Numbers: 19994-4511

# SAFETY DATA SHEET

1. Product and Company Identification

[Product name] PC-3M Blue 19994-5011

[File No.] 100002E [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

#### 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..

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[Date of issue]: 2016/11/30 MITSUBISHI PENCIL CO., LTD. 100002E

: 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 easys 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	e or a mixture]	Mixture
[Chemical nature]	[Component parts]	Ink[ Ink quantity of product :about 4.0g]
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
2-Propanol	67-63-0	< 10
Ethanol	64-17-5	< 10
1-Propanol	71-23-8	< 1

#### 4. First aid measures

[Description of first aid measures]

: Flush eyes with plenty of water for at least 15 minutes. Eve contact

: Take off the contact lens if possible

: Consult medical advice depending on the symptoms.

: Wash skin. Skin contact

: Consult medical advice depending on the symptoms.

: Thoroughly clean and dry contaminated clothing and shoes before reuse.

Rinse mouth, give plenty of water to dilute. No specific intervention is indicated Ingestion as compound is not likely to be hazardous by ingestion.

: Consult medical advice depending on the symptoms.

: Due to its low vapor pressure inhalation is unlikely at room temperature. Inhalation

: 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

Regular dry chemical, carbon dioxide, water, regular foam [Extinguishing media]

[Special hazards arising from the substance or mixture]

No further relevant information available.

Stay upwind and keep out of low areas and avoid inhalation of material or [Advice for firefighters]

combustion by-products.

Wear suitable protective equipment.

Page 2 of 6 Item Numbers: 19994-5011

## 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]

<del>-</del>		
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

[Imformation on basic physical and chemical properties]

Color : Blue State : Liquid Odor : slight odor

Page 3 of 6 Item Numbers: 19994-5011

[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.

MITSUBISHI PENCIL CO., LTD.

[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.

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 causion 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"

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[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.

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MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2016/11/30

# SAFETY DATA SHEET

1. Product and Company Identification

[Product name] PC-3M Light blue 19994-5021

[File No.] 100051E [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

## 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

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..

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 easys to do. Continue rinsing.

: IF exposed or concerned: Get medical advice/attention.

: If eye irritation persists: Get medical advice/attention.

: Dispose in accordance with all current regulations and standards.

No information available. [Other hazards]

# 3. Composition/information on ingredients

[The chemical product is a substance or a mixture]		Mixture
[Chemical nature]	[Component parts]	Ink[ Ink quantity of product :about 4.2g]
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
2-Propanol	67-63-0	< 10
Ethanol	64-17-5	< 10
1-Propanol	71-23-8	< 1

#### 4. First aid measures

[Description of first aid measures]

: Flush eyes with plenty of water for at least 15 minutes. Eye contact

: Take off the contact lens if possible

: Consult medical advice depending on the symptoms.

: Wash skin. Skin contact

: Consult medical advice depending on the symptoms.

: Thoroughly clean and dry contaminated clothing and shoes before reuse.

: Rinse mouth, give plenty of water to dilute. No specific intervention is indicated as compound is not likely to be hazardous by ingestion. Ingestion

: Consult medical advice depending on the symptoms.

: Due to its low vapor pressure inhalation is unlikely at room temperature. Inhalation

: 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

Regular dry chemical, carbon dioxide, water, regular foam [Extinguishing media]

[Special hazards arising from the substance or mixture]

No further relevant information available.

Stay upwind and keep out of low areas and avoid inhalation of material or [Advice for firefighters]

combustion by-products.

Wear suitable protective equipment.

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

[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

[Imformation on basic physical and chemical properties]

Color : Light blue State : Liquid Odor : slight odor

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[Date of issue]: 2016/11/30 MITSUBISHI PENCIL CO., LTD. 100051E

: about 8.4 рΗ

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

: No information available. Melting point : No information available. Flash point : No information available. Autoignition temperature : No information available. Explosion limits : No information available. Vapor density(air=1)

: about 1.2 Density : soluble Solubility in water

: No information available. Evaporation rate

: >60% Volatile

No information available. [Other information]

10. Stability and reactivity

This mixture is stable in normal temperature, a condition of the pressure. [Chemical stability]

No data available. [Reactivity]

Avoid heat, flames, sparks and other sources of ignition. [Conditions to avoid]

Avoid direct sunlight and high temperature.

No information available. [Incompatible materials] No information available. [Hazardous decomposition products] No information available. [Possibility of hazardous reactions]

11. Toxicological information

[Information on toxicological effects]

Acute toxicity(oral)

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

Acute toxicity(skin)

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

Acute toxicity(inhalation:vapours)

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

Skin corrosion/irritation No information available.

Serious eye damage/Eye Irritation

: Category2B Titanium dioxide : Category2A 2-Propanol : Category2A Ethanol : Category2B 1,2-Ethanediol

Respiratory sensitizer No information available.

Skin sensitizer

No information available.

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 : Category! 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]

[Special precautions for user] Check the container for any leakage. Load a cargo without a dropping or incurring damage, and take causion 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"

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.

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MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2016/11/30

## SAFETY DATA SHEET

## 1. Product and Company Identification

[Product name]

PC-3M Violet

[File No.]

100029E

[Date of issue]

2016/11/30

[Details of Manufacture]

Manufacture's name: MITSUBISHI PENCIL CO., LTD.

5-23-37, HIGASHIOHI, SHINAGAWA, TOKYO, JAPAN

Address: Telephone number: (Only office hour are available

03-3458-6281

telefax number:

03-3450-0363

#### 2. Hazards identification

Information of this section is about the ink.

[Classification of the substance or mixture]

PHYSICO-CHEMICAL HAZARDS

Not applicable.

**HEALTH HAZARDS** 

: Not classified Acute toxicity(oral) : Not classified Acute toxicity(skin) : Not classified Acute toxicity(inhalation steam) : Not classified Skin corrosion/irritation

: Category2 Serious eye damage/Eye Irritation

: Classification not possible Respiratory sensitizer : Classification not possible Skin sensitizer

Germ cell mutagenicity : Category1 : Category2 Carcinogenicity : Category1 Toxic to reproduction Specific target organ systemic toxicity(single exposure) : Category1 : Category1

Specific target organ systemic toxicity(repeated exposure) Aspiration hazard

: Not classified

**ENVIRONMENTAL HAZARDS** 

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

[Label elements]

Pictogram





Signal Word

: Danger

Hazard Statement

: Causes serious eye damage : May cause genetic defects : Suspected of causing cancer

May damage fertility or the unborn child

Causes damage to organs

: Causes damage to organs through prolonged or repeated exposure

Precautionary Statement

: Do not breathe dust/vapours etc..

: Do not eat, drink or smoke when using this product.

: 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 easys 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 3.8g]	
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.

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#### 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-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.

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### 9. Physical and chemical properties

[Imformation on basic physical and chemical properties]

Color : Violet
State : Liquid
Odor : slight odor
pH : about 8.3

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 : >70%

[Other information] No information available.

## 10. Stability and reactivity

[Chemical stability] This mixture is stable in normal temperature, a condition of the pressure.

[Reactivity] No data available.

[Conditions to avoid] Avoid heat, flames, sparks and other sources of ignition.

Avoid direct sunlight and high temperature.

[Incompatible materials] No information available.
[Hazardous decomposition products] No information available.
[Possibility of hazardous reactions] No information available.

## 11. Toxicological information

[Information on toxicological effects]

Acute toxicity(oral)

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

Acute toxicity(skin)

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

Acute toxicity(inhalation:vapours)

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

Skin corrosion/irritation

No information available.

Serious eye damage/Eye Irritation

Titanium dioxide : Category2B 1,2-Ethanediol : Category2B

Respiratory sensitizer

No information available.

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Skin sensitizer

No information available.

Germ cell mutagenicity

Ethanol : Category1B

Carcinogenicity

1-Propanol : Category2

Toxic to reproduction

Polyethylene glycol nonylphenyl : Category2

ether

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 causion against collapse of container.

#### 15. Regulatory information

Follow all regulation in your country.

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MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2016/11/30

[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.

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[Date of issue]: 2016/11/30 MITSUBISHI PENCIL CO., LTD. 100020E

# SAFETY DATA SHEET

1. Product and Company Identification

[Product name] PC-3M Green

[File No.] 100020E 2016/11/30 [Date of issue]

[Details of Manufacture]

Manufacture's name: MITSUBISHI PENCIL CO., LTD.

5-23-37, HIGASHIOHI, SHINAGAWA, TOKYO, JAPAN Address: 03-3450-0363 telefax number: 03-3458-6281

19994-7011

Telephone number:
(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**

: Not classified Acute toxicity(oral) : Not classified Acute toxicity(skin) : Not classified Acute toxicity(inhalation steam) : Not classified Skin corrosion/irritation : Category2 Serious eye damage/Eye Irritation

: Classification not possible Respiratory sensitizer : Classification not possible Skin sensitizer

: Category1 Germ cell mutagenicity : Category2 Carcinogenicity : Category1 Toxic to reproduction Specific target organ systemic toxicity(single exposure) : Category1 Specific target organ systemic toxicity(repeated exposure) : Category1 : Not classified Aspiration hazard

## **ENVIRONMENTAL HAZARDS**

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

## [Label elements] **Pictogram**



Signal Word

: Causes serious eye damage 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..

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: 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 easys 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.

Mina

[Other hazards] No information available.

[The chemical product is a substance or a misture]

## 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 3.9g]
Chemical name	Cas No.	Concentration range(wt%)
Water	7732-18-5	50-80
1,2-Ethanediol	107-21-1	< 10
Ethanol	64-17-5	< 10
Titanium dioxide	13463-67-7	< 10
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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#### 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

[Imformation on basic physical and chemical properties]

Color : Green
State : Liquid
Odor : slight odor
pH : about 8.1

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

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Melting point : No information available.

Flash point : No information available.

Autoignition temperature : No information available.

Explosion limits : No information available.

Vapor density(air=1) : No information available.

Density : about 1.1 Solubility in water : soluble

Evaporation rate : No information available.

Volatile : >70%

[Other information] No information available.

10. Stability and reactivity

[Chemical stability] This mixture is stable in normal temperature, a condition of the pressure.

[Reactivity] No data available.

[Conditions to avoid] Avoid heat, flames, sparks and other sources of ignition.

Avoid direct sunlight and high temperature.

[Incompatible materials] No information available.
[Hazardous decomposition products] No information available.
[Possibility of hazardous reactions] No information available.

#### 11. Toxicological information

[Information on toxicological effects]

Acute toxicity(oral)

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

Acute toxicity(skin)

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

Acute toxicity(inhalation:vapours)

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

Skin corrosion/irritation

No information available.

Serious eye damage/Eye Irritation

Titanium dioxide : Category2B
Ethanol : Category2A
1,2-Ethanediol : Category2B

Respiratory sensitizer

No information available.

Skin sensitizer

No information available.

Germ cell mutagenicity

Ethanol : Category1B

Carcinogenicity

1-Propanol : Category2

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[Date of issue]: 2016/11/30

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] 960826

[Special precautions for user] Check the container for any leakage. Load a cargo without a dropping or

MITSUBISHI PENCIL CO., LTD.

incurring damage, and take causion 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.

# SAFETY DATA SHEET

1. Product and Company Identification

PC-3M Light green

[File No.] 100025E [Date of issue] 2016/11/30

[Details of Manufacture]

[Product name]

Manufacture's name: MITSUBISHI PENCIL CO., LTD.

Address: 5-23-37, HIGASHIOHI, SHINAGAWA, TOKYO, JAPAN Telephone number: (Only office hour are available.) 03-3458-6281 telefax number: 03-3450-0363

19994-7021

# 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

Carcinogenicity Category2 Toxic to reproduction Category 1 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

: Category1

Precautionary Statement

: Do not breathe dust/vapours etc..

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: 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 easys 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.

Mixture

[Other hazards] No information available.

## 3. Composition/information on ingredients

[The chemical product is a substance or a mixture]		Mixtrie
[Chemical nature]	[Component parts]	Ink[ Ink quantity of product :about 4.1g]
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
	64-17-5	< 10
Ethanol	71-23-8	< 1
1-Propanol	67-63-0	< 1
2-Propanol	07-03-0	

## 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.

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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
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

[Imformation on basic physical and chemical properties]

Color : Light green State : Liquid Odor : slight odor рΗ : about 8.0

**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
Ethanol : Category2A
1,2-Ethanediol : Category2B

Respiratory sensitizer

No information available.

Skin sensitizer

No information available.

Germ cell mutagenicity

Ethanol : Category I B

Carcinogenicity

1-Propanol : Category2

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[Date of issue]: 2016/11/30 MITSUBISHI PENCIL CO., LTD. 100025E

Toxic to reproduction

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

Specific target organ systemic toxicity(single exposure)

1,2-Ethanediol : Category1

Specific target organ systemic toxicity(repeated exposure)

: Category1 Titanium dioxide : Category1 Ethanol : Category1 1,2-Ethanediol

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

No information available. [Environmental hazards]

[HS Code] 960820

Check the container for any leakage. Load a cargo without a dropping or [Special precautions for user]

incurring damage, and take causion 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.

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# SAFETY DATA SHEET

#### 1. Product and Company Identification

[Product name] PC-3M Bronze

[File No.] 100153E [Date of issue] 2017/05/24

[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

*A* 



Signal Word : Danger

Hazard Statement : Suspected of damaging fertility or the unborn child

: Causes damage to organs through prolonged or repeated exposure

Precautionary Statement

: Do not breathe dust/vapours etc..

: Do not eat, drink or smoke when using this product.

: Use personal protective equipment as required. (Refer to Section 8)

: Get medical advice/attention if you feel unwell.

: IF exposed or concerned: Get medical advice/attention.

: Dispose in accordance with all current regulations and standards.

[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 3.6g]	
Chemical name	Cas No.	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	

#### 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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## 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

[Imformation on basic physical and chemical properties]

Color : Bronze
State : Liquid
Odor : slight odor
pH : about 8.3

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

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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]: 2017/05/24

Toxic to reproduction

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] 960820

[Special precautions for user] Check the container for any leakage. Load a cargo without a dropping or

incurring damage, and take causion 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.

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## SAFETY DATA SHEET

1. Product and Company Identification

[Product name] PC-3M Gold 19994-9011

[File No.] 100067E [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

#### 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.

ltem Numbers: 19994-9011 Page 1 of 5

: 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]		Mixture
[Chemical nature]	[Component parts]	[nk[ Ink quantity of product :about 3.6g]
Chemical name	Cas No.	Concentration range(wt%)
Water	7732-18-5	50-80
Aluminum (as paste)	7429-90-5	< 10
Glycerine	56-81 <b>-</b> 5	< 10
Propanol, 1-methoxy-	107-98-2	< 10
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.

## 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.

ltem Numbers: 19994-9011 Page 2 of 5

# 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

[Imformation on basic physical and chemical properties]

Color : Gold State : Liquid Odor : slight odor pН : about 8.4

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

[Date of issue]: 2016/11/30 MITSUBISHI PENCIL CO., LTD. 100067E

: No information available. Melting point : No information available. Flash point : No information available. Autoignition temperature : No information available. **Explosion limits** : No information available. Vapor density(air=1)

: about 1.1 Density : soluble Solubility in water

: No information available. Evaporation rate

: >70% Volatile

No information available. [Other information]

10. Stability and reactivity

This mixture is stable in normal temperature, a condition of the pressure. [Chemical stability]

No data available. [Reactivity]

Avoid heat, flames, sparks and other sources of ignition. [Conditions to avoid]

Avoid direct sunlight and high temperature.

No information available. [Incompatible materials] No information available. [Hazardous decomposition products] No information available. [Possibility of hazardous reactions]

11. Toxicological information

[Information on toxicological effects]

Acute toxicity(oral) Not classified

: >2000 mg/kg (estimate value)

Acute toxicity(skin)

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

Acute toxicity(inhalation:vapours)

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

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

: Category1B Ethanol

Carcinogenicity

No information available.

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2016/11/30

Toxic to reproduction

Polyethylene glycol nonylphenyl : Category2

ether

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 causion 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.

## SAFETY DATA SHEET

1. Product and Company Identification

[Product name] PC-3M Silver 19994-9331

[File No.] 100069E [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

#### 2. Hazards identification

Information of this section is about the ink,

[Classification of the substance or mixture]

PHYSICO-CHEMICAL HAZARDS

Not applicable.

**HEALTH HAZARDS** 

Acute toxicity(oral) : Not classified
Acute toxicity(skin) : Not classified
Acute toxicity(inhalation steam) : Not classified
Skin corrosion/irritation : Not classified
Serious eye damage/Eye Irritation : Not classified

Respiratory sensitizer : Classification not possible
Skin sensitizer : Classification not possible
Germ cell mutagenicity : Classification not possible
Carcinogenicity : Classification not possible

Toxic to reproduction : Category2

Specific target organ systemic toxicity(single exposure) : Classification not possible

Specific target organ systemic toxicity(repeated exposure) : Category1
Aspiration hazard : Not classified

**ENVIRONMENTAL HAZARDS** 

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

Hazard to the Aquatic Environment (Chronic) : Not classified

[Label elements]

Pictogram :



Signal Word : Danger

Hazard Statement : Suspected of damaging fertility or the unborn child

: Causes damage to organs through prolonged or repeated exposure

Precautionary Statement

: Do not breathe dust/vapours etc..

: Do not eat, drink or smoke when using this product.

: Use personal protective equipment as required.(Refer to Section 8)

: Get medical advice/attention if you feel unwell.

: IF exposed or concerned: Get medical advice/attention.

: Dispose in accordance with all current regulations and standards.

Mistura

[Other hazards] No information available.

## 3. Composition/information on ingredients

The chemical product is a substance or a mixture		MIXCOLE	
[Chemical nature]	[Component parts]	Ink[ Ink quantity of product :about 3.6g]	
Chemical name	Cas No.	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.

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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## 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

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

[Imformation on basic physical and chemical properties]

Color : Silver
State : Liquid
Odor : slight odor
pH : about 8.4

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

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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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Toxic to reproduction

Polyethylene glycol nonylphenyl : Category2

ether

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] 960820

[Special precautions for user] Check the container for any leakage. Load a cargo without a dropping or

incurring damage, and take causion 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.

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