

103122E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]:2019/03/07

## SAFETY DATA SHEET

21072-6070

## 1. Product and Company Identification

[Product name] PEM-SY.63 Light violet

[File No.] 103122E

[Date of issue] 2019/03/07

[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	: Classification not possible
Serious eye damage/Eye Irritation	: Classification not possible
Respiratory sensitizer	: Classification not possible
Skin sensitizer	: Classification not possible
Germ cell mutagenicity	: Classification not possible
Carcinogenicity	: Classification not possible
Toxic to reproduction	: Classification not possible
Specific target organ systemic toxicity(single exposure)	: Classification not possible
Specific target organ systemic toxicity(repeated exposure)	: Classification not possible
Aspiration hazard	: Classification not possible

## ENVIRONMENTAL HAZARDS

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

[Label elements]

Pictogram : Not applicable.

Signal Word : Not applicable.

Hazard Statement : Not applicable.

Precautionary Statement

Not applicable.

[Other hazards] No information available.

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**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 1.0g]
Chemical name	Gas No.	Concentration range(wt%)
Water	7732-18-5	50-80
Glycerine	56-81-5	< 10

**4. First aid measures**

## [Description of first aid measures]

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

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

No information available.

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

No information available.

**5. Firefighting measures**

[Extinguishing media]	Regular dry chemical, carbon dioxide, water, regular foam
[Special hazards arising from the substance or mixture]	No further relevant information available.
[Advice for firefighters]	Stay upwind and keep out of low areas and avoid inhalation of material or combustion by-products. Wear suitable protective equipment.

**6. Accidental release measures**

## [Personal precautions, protective equipment and emergency procedures]

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

Wear appropriate protection gear.

Do not work in 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.

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**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.  
 Don't shake.

**[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
Glycerine	-	(TWA)10mg/m3

**[Exposure controls]**

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

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

Color	: Violet
State	: Liquid
Odor	: No information available.
pH	: about6.0
Boiling point	: No information available.[Water 100.0°C]
Melting point	: No information available.
Flash point	: No information available.[Glycerine 177.0°C]
Autoignition temperature	: No information available.
Explosion limits	: No information available.
Vapor density(air=1)	: No information available.
Density	: about1.1
Solubility in water	: No information available.
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.

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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 : >5000 mg/kg (estimate value)

Acute toxicity(skin)

Not classified : >5000 mg/kg (estimate value)

Acute toxicity(inhalation:vapours)

Not classified : >50 mg/L (estimate value)

Skin corrosion/irritation

No information available.

Serious eye damage/Eye Irritation

No information available.

Respiratory sensitizer

No information available.

Skin sensitizer

No information available.

Germ cell mutagenicity

No information available.

Carcinogenicity

No information available.

Toxic to reproduction

No information available.

Specific target organ systemic toxicity(single exposure)

No information available.

Specific target organ systemic toxicity(repeated exposure)

No information available.

Aspiration hazard

No information available.

Hazard to the Aquatic Environment (Acute)

No information available.

Hazard to the Aquatic Environment (Chronic)

No information available.

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**12. Ecological information**

[Results of PBT and vPvB assessment]

No information available.

[Other adverse effects]

No information available.

**13. Disposal considerations**

[Waste treatment methods]

Dispose in accordance with all current regulations and standards.

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

**14. Transport information**

[Environmental hazards]

No information available.

[HS Code]

960820

[Special precautions for user]

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

**15. Regulatory information**

Information of this section is about the ink.

[Safety, health and environmental regulations/legislation specific for the substance or mixture]

Follow all regulation in your country.

[Chemical safety assessment]

Ink or lead are manufactured in accordance with "ISO 8124-3 :2010 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.

103110E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]:2019/03/07

21072-3240

## SAFETY DATA SHEET

## 1. Product and Company Identification

[Product name] PEM-SY.66 Coral pink  
 [File No.] 103110E  
 [Date of issue] 2019/03/07  
 [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 : Classification not possible  
 Serious eye damage/Eye Irritation : Classification not possible  
 Respiratory sensitizer : Classification not possible  
 Skin sensitizer : Classification not possible  
 Germ cell mutagenicity : Classification not possible  
 Carcinogenicity : Category1  
 Toxic to reproduction : Category1  
 Specific target organ systemic toxicity(single exposure) : Classification not possible  
 Specific target organ systemic toxicity(repeated exposure) : Classification not possible  
 Aspiration hazard : Classification not possible

## ENVIRONMENTAL HAZARDS

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

[Label elements]

Pictogram



Signal Word

: Danger

Hazard Statement

: May cause cancer  
 : May damage fertility or the unborn child

Precautionary Statement

: Use personal protective equipment as required.(Refer to Section 8)  
 : IF exposed or concerned: Get medical advice/attention.  
 : Dispose in accordance with all current regulations and standards.

[Other hazards]

No information available.

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MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2019/03/07

**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 1.0g]
Chemical name	Cas No.	Concentration range(wt%)
Water	7732-18-5	50-80
Glycerine	56-81-5	< 10

**4. First aid measures**

[Description of first aid measures]

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

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

No information available.

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

No information available.

**5. Firefighting measures**

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

[Special hazards arising from the substance or mixture]

No further relevant information available.

[Advice for firefighters]

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

Wear suitable protective equipment.

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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.

Don't shake.

**[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
Glycerine	-	(TWA)10mg/m3

**[Exposure controls]**

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

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

Color	: Pink
State	: Liquid
Odor	: No information available.
pH	: about6.1
Boiling point	: No information available.[Water 100.0°C]
Melting point	: No information available.
Flash point	: No information available.[Glycerine 177.0°C]



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Autoignition temperature : No information available.  
Explosion limits : No information available.  
Vapor density(air=1) : No information available.  
Density : about1.1  
Solubility in water : No information available.  
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 : >5000 mg/kg (estimate value)  
Acute toxicity(skin)  
Not classified : >5000 mg/kg (estimate value)  
Acute toxicity(inhalation:vapours)  
Not classified : >50 mg/L (estimate value)  
Skin corrosion/irritation  
No information available.  
Serious eye damage/Eye Irritation  
No information available.  
Respiratory sensitizer  
No information available.  
Skin sensitizer  
No information available.  
Germ cell mutagenicity  
No information available.  
Carcinogenicity  
No information available.  
Toxic to reproduction  
No information available.

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Specific target organ systemic toxicity(single exposure)

No information available.

Specific target organ systemic toxicity(repeated exposure)

No information available.

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

[Results of PBT and vPvB assessment]

No information available.

[Other adverse effects]

No information available.

## 13. Disposal considerations

[Waste treatment methods]

Dispose in accordance with all current regulations and standards.

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

## 14. Transport information

[Environmental hazards]

No information available.

[HS Code]

960820

[Special precautions for user]

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

## 15. Regulatory information

Information of this section is about the ink.

[Safety, health and environmental regulations/legislation specific for the substance or mixture]

Follow all regulation in your country.

[Chemical safety assessment]

Ink or lead are manufactured in accordance with "ISO 8124-3 :2010 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]: 2019/03/07

## SAFETY DATA SHEET

21072-5020

## 1. Product and Company Identification

[Product name] PEM-SY.8 Light blue  
 [File No.] 103117E  
 [Date of issue] 2019/03/07  
 [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 : Classification not possible  
 Serious eye damage/Eye Irritation : Classification not possible  
 Respiratory sensitizer : Classification not possible  
 Skin sensitizer : Classification not possible  
 Germ cell mutagenicity : Classification not possible  
 Carcinogenicity : Classification not possible  
 Toxic to reproduction : Classification not possible  
 Specific target organ systemic toxicity(single exposure) : Classification not possible  
 Specific target organ systemic toxicity(repeated exposure) : Classification not possible  
 Aspiration hazard : Classification not possible

## ENVIRONMENTAL HAZARDS

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

[Label elements]

Pictogram : Not applicable.  
 Signal Word : Not applicable.  
 Hazard Statement : Not applicable.  
 Precautionary Statement

Not applicable.

[Other hazards] No information available.

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MITSUBISHI PENCIL CO., LTD.

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**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 1.0g]
Chemical name	Gas No.	Concentration range(wt%)
Water	7732-18-5	50-80
Glycerine	56-81-5	< 10

**4. First aid measures**

## [Description of first aid measures]

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

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

No information available.

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

No information available.

**5. Firefighting measures**

- [Extinguishing media] Regular dry chemical, carbon dioxide, water, regular foam
- [Special hazards arising from the substance or mixture]  
No further relevant information available.
- [Advice for firefighters] Stay upwind and keep out of low areas and avoid inhalation of material or combustion by-products.  
Wear suitable protective equipment.

**6. Accidental release measures**

## [Personal precautions, protective equipment and emergency procedures]

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

Wear appropriate protection gear.

Do not work in 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.

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MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2019/03/07

**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.  
 Don't shake.

## [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
Glycerine	-	(TWA)10mg/m3

## [Exposure controls]

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

**9. Physical and chemical properties**

## [Information on basic physical and chemical properties]

Color	: Light blue
State	: Liquid
Odor	: No information available.
pH	: about5.4
Boiling point	: No information available.[Water 100.0°C]
Melting point	: No information available.
Flash point	: No information available.[Glycerine 177.0°C]
Autoignition temperature	: No information available.
Explosion limits	: No information available.
Vapor density(air=1)	: No information available.
Density	: about1.1
Solubility in water	: No information available.
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.

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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

: &gt;5000 mg/kg (estimate value)

Acute toxicity(skin)

Not classified

: &gt;5000 mg/kg (estimate value)

Acute toxicity(inhalation:vapours)

Not classified

: &gt;50 mg/L (estimate value)

Skin corrosion/irritation

No information available.

Serious eye damage/Eye Irritation

No information available.

Respiratory sensitizer

No information available.

Skin sensitizer

No information available.

Germ cell mutagenicity

No information available.

Carcinogenicity

No information available.

Toxic to reproduction

No information available.

Specific target organ systemic toxicity(single exposure)

No information available.

Specific target organ systemic toxicity(repeated exposure)

No information available.

Aspiration hazard

No information available.

Hazard to the Aquatic Environment (Acute)

No information available.

Hazard to the Aquatic Environment (Chronic)

No information available.

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MITSUBISHI PENCIL CO., LTD.

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**12. Ecological information**

[Results of PBT and vPvB assessment]

No information available.

[Other adverse effects]

No information available.

**13. Disposal considerations**

[Waste treatment methods]

Dispose in accordance with all current regulations and standards.

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

**14. Transport information**

[Environmental hazards]

No information available.

[HS Code]

960820

[Special precautions for user]

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

**15. Regulatory information**

Information of this section is about the ink.

[Safety, health and environmental regulations/legislation specific for the substance or mixture]

Follow all regulation in your country.

[Chemical safety assessment]

Ink or lead are manufactured in accordance with "ISO 8124-3 :2010 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]:2019/03/07

## SAFETY DATA SHEET

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## 1. Product and Company Identification

[Product name] PEM-SY.51 Light pink  
 [File No.] 103107E  
 [Date of issue] 2019/03/07  
 [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	: Classification not possible
Serious eye damage/Eye Irritation	: Classification not possible
Respiratory sensitizer	: Classification not possible
Skin sensitizer	: Classification not possible
Germ cell mutagenicity	: Classification not possible
Carcinogenicity	: Classification not possible
Toxic to reproduction	: Classification not possible
Specific target organ systemic toxicity(single exposure)	: Classification not possible
Specific target organ systemic toxicity(repeated exposure)	: Classification not possible
Aspiration hazard	: Classification not possible

## ENVIRONMENTAL HAZARDS

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

[Label elements]

Pictogram	: Not applicable.
Signal Word	: Not applicable.
Hazard Statement	: Not applicable.
Precautionary Statement	

Not applicable.

[Other hazards] No information available.



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MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2019/03/07

**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 1.0g]
Chemical name	Cas No.	Concentration range(wt%)
Water	7732-18-5	50-80
Glycerine	56-81-5	< 10

**4. First aid measures**

[Description of first aid measures]

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

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

No information available.

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

No information available.

**5. Firefighting measures**

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

[Special hazards arising from the substance or mixture]

No further relevant information available.

[Advice for firefighters]

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

Wear suitable protective equipment.

**6. Accidental release measures**

[Personal precautions, protective equipment and emergency procedures]

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

Wear appropriate protection gear.

Do not work in 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.

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**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.  
 Don't shake.

**[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
Glycerine	-	(TWA)10mg/m3

**[Exposure controls]**

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

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

Color	: Pink
State	: Liquid
Odor	: No information available.
pH	: about5.6
Boiling point	: No information available.[Water 100.0°C]
Melting point	: No information available.
Flash point	: No information available.[Glycerine 177.0°C]
Autoignition temperature	: No information available.
Explosion limits	: No information available.
Vapor density(air=1)	: No information available.
Density	: about1.1
Solubility in water	: No information available.
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.

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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 : >5000 mg/kg (estimate value)

Acute toxicity(skin)

Not classified : >5000 mg/kg (estimate value)

Acute toxicity(inhalation:vapours)

Not classified : >50 mg/L (estimate value)

Skin corrosion/irritation

No information available.

Serious eye damage/Eye Irritation

No information available.

Respiratory sensitizer

No information available.

Skin sensitizer

No information available.

Germ cell mutagenicity

No information available.

Carcinogenicity

No information available.

Toxic to reproduction

No information available.

Specific target organ systemic toxicity(single exposure)

No information available.

Specific target organ systemic toxicity(repeated exposure)

No information available.

Aspiration hazard

No information available.

Hazard to the Aquatic Environment (Acute)

No information available.

Hazard to the Aquatic Environment (Chronic)

No information available.

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**12. Ecological information**

[Results of PBT and vPvB assessment]

No information available.

[Other adverse effects]

No information available.

**13. Disposal considerations**

[Waste treatment methods]

Dispose in accordance with all current regulations and standards.

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

**14. Transport information**

[Environmental hazards]

No information available.

[HS Code]

960820

[Special precautions for user]

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

**15. Regulatory information**

Information of this section is about the ink.

[Safety, health and environmental regulations/legislation specific for the substance or mixture]

Follow all regulation in your country.

[Chemical safety assessment]

Ink or lead are manufactured in accordance with "ISO 8124-3 :2010 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

21072-7050

## 1. Product and Company Identification

[Product name] PEM-SY.31 Emerald green

[File No.] 103120E

[Date of issue] 2019/03/07

[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 : Classification not possible

Serious eye damage/Eye Irritation : Classification not possible

Respiratory sensitizer : Classification not possible

Skin sensitizer : Classification not possible

Germ cell mutagenicity : Classification not possible

Carcinogenicity : Classification not possible

Toxic to reproduction : Classification not possible

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

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

Aspiration hazard : Classification not possible

## ENVIRONMENTAL HAZARDS

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

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

[Label elements]

Pictogram : Not applicable.

Signal Word : Not applicable.

Hazard Statement : Not applicable.

Precautionary Statement

Not applicable.

[Other hazards] No information available.

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**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 1.0g]
Chemical name	Cas No.	Concentration range(wt%)
Water	7732-18-5	50-80
Glycerine	56-81-5	< 10

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

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

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

No information available.

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

No information available.

**5. Firefighting measures****[Extinguishing media]** Regular dry chemical, carbon dioxide, water, regular foam**[Special hazards arising from the substance or mixture]**

No further relevant information available.

**[Advice for firefighters]**

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

Wear suitable protective equipment.

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

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

Wear appropriate protection gear.

Do not work in 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.

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**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.  
 Don't shake.

## [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
Glycerine	-	(TWA)10mg/m3

## [Exposure controls]

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

**9. Physical and chemical properties**

## [Information on basic physical and chemical properties]

Color	: Green
State	: Liquid
Odor	: No information available.
pH	: about5.9
Boiling point	: No information available.[Water 100.0°C]
Melting point	: No information available.
Flash point	: No information available.[Glycerine 177.0°C]
Autoignition temperature	: No information available.
Explosion limits	: No information available.
Vapor density(air=1)	: No information available.
Density	: about1.1
Solubility in water	: No information available.
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]

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Avoid direct sunlight and high temperature.

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

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[Information on toxicological effects]

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Carcinogenicity

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Specific target organ systemic toxicity(single exposure)

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Specific target organ systemic toxicity(repeated exposure)

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Aspiration hazard

No information available.

Hazard to the Aquatic Environment (Acute)

No information available.

Hazard to the Aquatic Environment (Chronic)

No information available.



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**12. Ecological information**

[Results of PBT and vPvB assessment]

No information available.

[Other adverse effects]

No information available.

**13. Disposal considerations**

[Waste treatment methods]

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

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[Environmental hazards]

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[HS Code]

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