

SAFETY DATA SHEET according to Regulation (EC) No.1907/2006

1. Product and Company Identification

[Product name] **Black INK for PC-1MR**

[File No.] **100529B**

[Date of issue] **2018/04/27**

[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.)

[Details of Supplier]

Supplier's name: **Mitsubishi Pencil France S.A**

Address: **32 Avenue Pierre Grenier, 92517 BOULOGNE BILLANCOURT CEDEX, FRANCE**

Telephone number: **33 (1) 46 94 33 33** telefax number: **33 (1) 46 94 33 00**
(Only office hour are available.)

Emergency phone number: **33 (1) 46 94 33 33**

2. Hazards identification

[Classification of the substance or mixture] Classification (REGULATION (EC) No 1272/2008)

Not classified as hazardous according to Regulation (EC) No.1907 / 2006.

[Label elements] Classification (REGULATION (EC) No 1272/2008)

Pictogram : Not applicable.

Signal Word : Not applicable.

Hazard Statement : Not applicable.

Precautionary Statement

Not applicable.

[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

Chemical name

Cas No.

Concentration range(wt%)

Classification
(REGULATION (EC) No
1272/2008)

Water

7732-18-5

50-80

1,2-Ethanediol

107-21-1

< 10

Acute Tox.4; H302

Ethyl alcohol

64-17-5

< 10

Flam. Liq.2; H225

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 with soap and water for at least 15 minutes while removing contaminated clothing and shoes.
: 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.

7. Handling and storage

[Precautions for safe handling]

- Do not lick or swallow the ink.
- Avoid contact with skin and eyes.
- Recap after use, 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.
- Use a container to fill up at the time of shipment.
- Recommended temperature : 0–40°C

[Specific end use(s)]

No information available.

8. Exposure controls/personal protection

[Control parameters]

| Chemical name | OSHA | ACGIH |
|----------------|------|----------------------------|
| Ethyl alcohol | – | (TWA)1000ppm |
| 1,2-Ethanediol | – | (STEL)100mg/m ³ |

[Exposure controls]

| | |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protective equipment | : Not required. |
| Respiratory protection | : Not required. |
| Hands protection | : It is not particularly necessary, but the person of the erethism recommends in particular the wearing of protection gloves from an aspect of the contact defense. |
| Eye protection | : It is not particularly necessary, but the person of the erethism recommends in particular the wearing of protection glasses from an aspect of the contact defense. |
| Skin protection | : It is not particularly necessary, but the person of the erethism recommends in particular the wearing of protection clothes from an aspect of the contact defense. |

9. Physical and chemical properties

[Information on basic physical and chemical properties]

| | |
|--------------------------|--------------------------------------------|
| Color | : Black |
| State | : Liquid |
| Odor | : slight odor |
| pH | : about 8.6 |
| Boiling point | : No information available.[Water 100.0°C] |
| Melting point | : No information available. |
| 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. |
| [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) | |
| Classification not possible | : No information available. |
| Acute toxicity(inhalation:vapours) | |
| Classification not possible | : No information available. |
| 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.

12. Ecological information

[Toxicity for fish] No information available.

[Toxicity for crustaceans] No information available.

[Toxicity for algae] No information available.

[Persistence and degradability]
No information available.

[Bioaccumulative potential] No information available.

[Mobility in soil] No information available.

[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

[Transport hazard class(es)] Not applicable.

[UN number, proper shipping name]

-

[Packing group] No information available.

[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

[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 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.

H225–Highly flammable liquid and vapour

H302–Harmful if swallowed

SAFETY DATA SHEET according to Regulation (EC) No.1907/2006

1. Product and Company Identification

[Product name] **Black INK for PC-1M**

[File No.] 100444B

[Date of issue] 2018/05/01

[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.)

[Details of Supplier]

Supplier's name: Mitsubishi Pencil France S.A

Address: 32 Avenue Pierre Grenier, 92517 BOULOGNE BILLANCOURT CEDEX, FRANCE

Telephone number: 33 (1) 46 94 33 33 telefax number: 33 (1) 46 94 33 00
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Emergency phone number: 33 (1) 46 94 33 33

2. Hazards identification

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Not classified as hazardous according to Regulation (EC) No.1907 / 2006.

[Label elements] Classification (REGULATION (EC) No 1272/2008)

Pictogram : Not applicable.

Signal Word : Not applicable.

Hazard Statement : Not applicable.

Precautionary Statement

Not applicable.

[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

Chemical name

Cas No.

Concentration range(wt%)

Classification
(REGULATION (EC) No
1272/2008)

Water

7732-18-5

50-80

1,2-Ethanediol

107-21-1

< 10

Acute Tox.4; H302

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 with soap and water for at least 15 minutes while removing contaminated clothing and shoes.
: 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.

7. Handling and storage

[Precautions for safe handling]

- Do not lick or swallow the ink.
- Avoid contact with skin and eyes.
- Recap after use, 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.
- Use a container to fill up at the time of shipment.
- Recommended temperature : 0–40°C

[Specific end use(s)]

No information available.

8. Exposure controls/personal protection

[Control parameters]

| Chemical name | OSHA | ACGIH |
|----------------|------|----------------------------|
| 1,2-Ethanediol | – | (STEL)100mg/m ³ |

[Exposure controls]

| | |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protective equipment | : Not required. |
| Respiratory protection | : Not required. |
| Hands protection | : It is not particularly necessary, but the person of the erethism recommends in particular the wearing of protection gloves from an aspect of the contact defense. |
| Eye protection | : It is not particularly necessary, but the person of the erethism recommends in particular the wearing of protection glasses from an aspect of the contact defense. |
| Skin protection | : It is not particularly necessary, but the person of the erethism recommends in particular the wearing of protection clothes from an aspect of the contact defense. |

9. Physical and chemical properties

[Information on basic physical and chemical properties]

| | |
|--------------------------|--------------------------------------------|
| Color | : Black |
| State | : Liquid |
| Odor | : slight odor |
| pH | : about 8.2 |
| Boiling point | : No information available.[Water 100.0°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. |
| [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) | |
| Classification not possible | : No information available. |
| Acute toxicity(inhalation:vapours) | |
| Classification not possible | : No information available. |
| 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.

12. Ecological information

[Toxicity for fish] No information available.

[Toxicity for crustaceans] No information available.

[Toxicity for algae] No information available.

[Persistence and degradability] No information available.

[Bioaccumulative potential] No information available.

[Mobility in soil] No information available.

[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

[Transport hazard class(es)] Not applicable.

[UN number, proper shipping name]

-

[Packing group] No information available.

[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

[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 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.

H302–Harmful if swallowed

SAFETY DATA SHEET according to Regulation (EC) No.1907/2006

1. Product and Company Identification

[Product name] **Black INK for PC-3M/ 5M/ 7M/ 8K/ 17K**

[File No.] 100446B

[Date of issue] 2018/05/01

[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.)

[Details of Supplier]

Supplier's name: Mitsubishi Pencil France S.A

Address: 32 Avenue Pierre Grenier, 92517 BOULOGNE BILLANCOURT CEDEX, FRANCE

Telephone number: 33 (1) 46 94 33 33 telefax number: 33 (1) 46 94 33 00
(Only office hour are available.)

Emergency phone number: 33 (1) 46 94 33 33

2. Hazards identification

[Classification of the substance or mixture] Classification (REGULATION (EC) No 1272/2008)

Not classified as hazardous according to Regulation (EC) No.1907 / 2006.

[Label elements] Classification (REGULATION (EC) No 1272/2008)

Pictogram : Not applicable.

Signal Word : Not applicable.

Hazard Statement : Not applicable.

Precautionary Statement

Not applicable.

[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

Chemical name

Cas No.

Concentration range(wt%)

Classification
(REGULATION (EC) No
1272/2008)

| | | | |
|-------------------|-----------|-------|---------------------------------------------------------|
| Water | 7732-18-5 | 50-80 | |
| 1,2-Ethanediol | 107-21-1 | < 10 | Acute Tox.4; H302 |
| Ethyl alcohol | 64-17-5 | < 10 | Flam. Liq.2; H225 |
| Isopropyl alcohol | 67-63-0 | < 10 | Flam. Liq.2; H225 STOT SE3; H336 Eye Irrit2; H319 |

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 with soap and water for at least 15 minutes while removing contaminated clothing and shoes.
: 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.

7. Handling and storage

[Precautions for safe handling]

- Do not lick or swallow the ink.
- Avoid contact with skin and eyes.
- Recap after use, 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.
- Use a container to fill up at the time of shipment.
- Recommended temperature : 0–40°C

[Specific end use(s)]

No information available.

8. Exposure controls/personal protection

[Control parameters]

| Chemical name | OSHA | ACGIH |
|-------------------|------|-----------------------------|
| Isopropyl alcohol | – | (TWA)200ppm (STEL)400ppm |
| Ethyl alcohol | – | (TWA)1000ppm |
| 1,2-Ethanediol | – | (STEL)100mg/m ³ |

[Exposure controls]

| | |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protective equipment | : Not required. |
| Respiratory protection | : Not required. |
| Hands protection | : It is not particularly necessary, but the person of the erethism recommends in particular the wearing of protection gloves from an aspect of the contact defense. |
| Eye protection | : It is not particularly necessary, but the person of the erethism recommends in particular the wearing of protection glasses from an aspect of the contact defense. |
| Skin protection | : It is not particularly necessary, but the person of the erethism recommends in particular the wearing of protection clothes from an aspect of the contact defense. |

9. Physical and chemical properties

[Information on basic physical and chemical properties]

| | |
|--------------------------|---------------------------------------------|
| Color | : Black |
| State | : Liquid |
| Odor | : slight odor |
| pH | : about 8.5 |
| 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. |

[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) | |
| Classification not possible | : No information available. |
| Acute toxicity(inhalation:vapours) | |
| Classification not possible | : No information available. |
| 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.

12. Ecological information

[Toxicity for fish] No information available.

[Toxicity for crustaceans] No information available.

[Toxicity for algae] No information available.

[Persistence and degradability]
No information available.

[Bioaccumulative potential] No information available.

[Mobility in soil] No information available.

[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

[Transport hazard class(es)] Not applicable.

[UN number, proper shipping name]

-

[Packing group] No information available.

[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

[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 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.

H225–Highly flammable liquid and vapour

H302–Harmful if swallowed

H319–Causes serious eye damage

H336–May cause drowsiness or dizziness.

SAFETY DATA SHEET according to Regulation (EC) No.1907/2006

1. Product and Company Identification

[Product name] **BLACK INK for PCF-350**

[File No.] 100528B

[Date of issue] 2018/11/19

[Details of Manufacture]

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

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

Telephone number: 03-3458-6281 telefax number: 03-3450-0363
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[Label elements] Classification (REGULATION (EC) No 1272/2008)

Pictogram : Not applicable.

Signal Word : Not applicable.

Hazard Statement : Not applicable.

Precautionary Statement

Not applicable.

[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

Chemical name

Cas No.

Concentration range(wt%)

Classification
(REGULATION (EC) No
1272/2008)

Water

7732-18-5

50-80

1,2-Ethanediol

107-21-1

< 10

Acute Tox.4; H302

Ethyl alcohol

64-17-5

< 10

Flam. Liq.2; H225

Isopropyl alcohol

67-63-0

< 10

Flam. Liq.2; H225
STOT SE3; H336
Eye Irrit2; H319

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 with soap and water for at least 15 minutes while removing contaminated clothing and shoes.
 : 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.

7. Handling and storage

[Precautions for safe handling]

- Do not lick or swallow the ink.
- Avoid contact with skin and eyes.
- Recap after use, 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.
- Use a container to fill up at the time of shipment.
- Recommended temperature : 0–40°C

[Specific end use(s)]

No information available.

8. Exposure controls/personal protection

[Control parameters]

| Chemical name | OSHA | ACGIH |
|-------------------|------|-----------------------------|
| Isopropyl alcohol | – | (TWA)200ppm (STEL)400ppm |
| Ethyl alcohol | – | (TWA)1000ppm |
| 1,2-Ethanediol | – | (STEL)100mg/m ³ |

[Exposure controls]

| | |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protective equipment | : Not required. |
| Respiratory protection | : Not required. |
| Hands protection | : It is not particularly necessary, but the person of the erethism recommends in particular the wearing of protection gloves from an aspect of the contact defense. |
| Eye protection | : It is not particularly necessary, but the person of the erethism recommends in particular the wearing of protection glasses from an aspect of the contact defense. |
| Skin protection | : It is not particularly necessary, but the person of the erethism recommends in particular the wearing of protection clothes from an aspect of the contact defense. |

9. Physical and chemical properties

[Information on basic physical and chemical properties]

| | |
|--------------------------|---------------------------------------------|
| Color | : Black |
| State | : Liquid |
| Odor | : slight odor |
| 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 1.1 |
| Solubility in water | : soluble |
| Evaporation rate | : No information available. |

[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) | |
| Classification not possible | : No information available. |
| Acute toxicity(inhalation:vapours) | |
| Classification not possible | : No information available. |
| 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.

12. Ecological information

[Toxicity for fish] No information available.

[Toxicity for crustaceans] No information available.

[Toxicity for algae] No information available.

[Persistence and degradability]
No information available.

[Bioaccumulative potential] No information available.

[Mobility in soil] No information available.

[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

[Transport hazard class(es)] No information available.

[UN number, proper shipping name]
No information available.

[Packing group] No information available.

[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

[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 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.

H225—Highly flammable liquid and vapour

H302—Harmful if swallowed

H319—Causes serious eye damage

H336—May cause drowsiness or dizziness.