

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

1. Product and Company Identification

[Product name] **Black INK for PC-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-Ethenediol | – | (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] Blue INK for PC-17K

[File No.] 100445B

[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

[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

Titanium dioxide

13463-67-7

10-30

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 |
|-------------------|------|-----------------------------|
| Titanium dioxide | – | (TWA)10mg/m ³ |
| 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 | : Blue |
| State | : Liquid |
| Odor | : slight odor |
| 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.
[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] Gold INK for PC-17K

[File No.] 100492B

[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

Aluminum (as paste)

7429-90-5

< 10

Flam. Sol.1; H228
Water-react.2; H261

Glycerine

56-81-5

< 10

Propylene glycol monomethyl ether

107-98-2

< 10

Flam. Liq.3; H226
STOT SE3; H336

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 |
|-----------------------------------|------|-----------------------------|
| Aluminum (as paste) | – | (TWA)10ppm |
| Glycerine | – | (TWA)10mg/m ³ |
| Propylene glycol monomethyl ether | – | (TWA)100ppm (STEL)150ppm |

[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 | : Gold |
| State | : Liquid |
| Odor | : No information available. |
| 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. [Aluminum (as paste) 590.0°C] |
| 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.

H226—Flammable liquid and vapour

H228—Flammable solid

H261—In contact with water releases flammable gas

H336—May cause drowsiness or dizziness.

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

1. Product and Company Identification

[Product name] Green INK for PC-17K

[File No.] 100473B

[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
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[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

Titanium dioxide

13463-67-7

< 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 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 |
|------------------|------|----------------------------|
| Titanium dioxide | – | (TWA)10mg/m ³ |
| 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 | : Green |
| 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

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

1. Product and Company Identification

[Product name] Light blue INK for PC-17K

[File No.] 100480B

[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

Titanium dioxide

13463-67-7

10-30

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 |
|------------------|------|----------------------------|
| Titanium dioxide | – | (TWA)10mg/m ³ |
| 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 | : Light blue |
| 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 1.2 |
| 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] Pink INK for PC-17K

[File No.] 100447B

[Date of issue] 2018/12/27

[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

Titanium dioxide

13463-67-7

10-30

1,2-Ethanediol

107-21-1

< 10

Acute Tox.4; H302

Ethyl alcohol

64-17-5

< 10

Flam. Liq.2; H225

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 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 |
|------------------|------|----------------------------|
| Titanium dioxide | – | (TWA)10mg/m ³ |
| 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 | : Pink |
| State | : Liquid |
| Odor | : slight odor |
| pH | : about8.2 |
| 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 | : about1.2 |
| 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] Red INK for PC-17K

[File No.] 100472B

[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

Titanium dioxide

13463-67-7

10-30

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 |
|------------------|------|----------------------------|
| Titanium dioxide | – | (TWA)10mg/m ³ |
| 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 | : Red |
| State | : Liquid |
| Odor | : slight odor |
| 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 1.1 |
| 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] Silver INK for PC-17K

[File No.] 100493B

[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

Aluminum (as paste)

7429-90-5

< 10

Flam. Sol.1; H228
Water-react.2; H261

Glycerine

56-81-5

< 10

Propylene glycol monomethyl ether

107-98-2

< 10

Flam. Liq.3; H226
STOT SE3; H336

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 |
|-----------------------------------|------|-----------------------------|
| Aluminum (as paste) | – | (TWA)10ppm |
| Glycerine | – | (TWA)10mg/m ³ |
| Propylene glycol monomethyl ether | – | (TWA)100ppm (STEL)150ppm |

[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 | : Silver |
| 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. [Aluminum (as paste) 590.0°C] |
| 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.

H226—Flammable liquid and vapour

H228—Flammable solid

H261—In contact with water releases flammable gas

H336—May cause drowsiness or dizziness.

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

1. Product and Company Identification

[Product name] White INK for PC-17K

[File No.] 100483B

[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

Titanium dioxide

13463-67-7

10-30

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 |
|-------------------|------|-----------------------------|
| Titanium dioxide | – | (TWA)10mg/m ³ |
| 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 | : White |
| 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 1.3 |
| 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] Yellow INK for PC-17K

[File No.] 100478B

[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

Titanium dioxide

13463-67-7

< 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 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 |
|------------------|------|----------------------------|
| Titanium dioxide | – | (TWA)10mg/m ³ |
| 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 | : Yellow |
| State | : Liquid |
| Odor | : slight odor |
| 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 1.1 |
| 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