

# SAFETY DATA SHEET

## 1. Product and Company Identification

[Product name] uni-ball eye Blue (UB-150/157,UB-150-10) AUS

[File No.] 300078E

[Date of issue] 2020/02/25

[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 Australia (ABN:31 085 515 671)

Address: 674 Lorimar Street, Port Melbourne VIC 3207

Telephone number: 03 9646 5630  
(Only office hour are available.)

Emergency phone number: 03 9646 5630

## 2. Hazards identification

Information of this section is about the ink.

[Classification of the substance or mixture]

### PHYSICO-CHEMICAL HAZARDS

Not applicable.

### HEALTH HAZARDS

|  |                               |
|--|-------------------------------|
| Acute toxicity(oral)                                       | : Not classified              |
| Acute toxicity(skin)                                       | : Not classified              |
| Acute toxicity(inhalation steam)                           | : Not classified              |
| Skin corrosion/irritation                                  | : Classification not possible |
| Serious eye damage/Eye Irritation                          | : Classification not possible |
| Respiratory sensitizer                                     | : Classification not possible |
| Skin sensitizer  | : Classification not possible |
| Germ cell mutagenicity                                     | : Classification not possible |
| Carcinogenicity  | : Classification not possible |
| Toxic to reproduction                                      | : Category2                   |
| Specific target organ systemic toxicity(single exposure)   | : Classification not possible |
| Specific target organ systemic toxicity(repeated exposure) | : Category1                   |
| Aspiration hazard  | : Classification not possible |

### ENVIRONMENTAL HAZARDS

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

[Label elements]

Pictogram



Signal Word : Danger

Hazard Statement : Suspected of damaging fertility or the unborn child  
: Causes damage to organs through prolonged or repeated exposure

## Precautionary Statement

- : Do not breathe dust/vapours etc..
- : Do not eat, drink or smoke when using this product.
- : Use personal protective equipment as required.(Refer to Section 8)
- : Get medical advice/attention if you feel unwell.
- : IF exposed or concerned: Get medical advice/attention.
- : Dispose in accordance with all current regulations and standards.

[Other hazards]

No information available.

## 3. Composition/information on ingredients

|  |                   |                          |
|--|-------------------|--------------------------|
| [The chemical product is a substance or a mixture] |                   | Mixture                  |
| [Chemical nature]                                  | [Component parts] | Ink                      |
| Chemical name                                      | Cas No.           | Concentration range(wt%) |
| Water  | 7732-18-5         | 50-80                    |
| 1,2-Propanediol                                    | 57-55-6           | < 10                     |
| Diethylene glycol                                  | 111-46-6          | < 10                     |
| Glycerine  | 56-81-5           | < 10                     |

## 4. First aid measures

[Description of first aid measures]

- |              |   |
|--------------|---|
| Eye contact  | : Flush eyes with plenty of water for at least 15 minutes.<br>: Take off the contact lens if possible<br>: Consult medical advice depending on the symptoms.  |
| Skin contact | : Wash skin.<br>: Consult medical advice depending on the symptoms.<br>: 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.<br>: Consult medical advice depending on the symptoms. |
| Inhalation   | : Due to its low vapor pressure inhalation is unlikely at room temperature.<br>: If not feeling well, move to an area of fresh air and rest.<br>: 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 (if there is a cap), and keep out of the reach of infants.

Don't shake.

### [Conditions for safe storage, including any incompatibilities]

Keep away from oxidizing materials, ignition sources, high temperature and direct sunlight.

Recommended temperature : 0–40°C

### [Specific end use(s)]

No information available.

## 8. Exposure controls/personal protection

### [Control parameters]

| Chemical name | OSHA | ACGIH                    |
|---------------|------|--------------------------|
| Glycerine     | –    | (TWA)10mg/m <sup>3</sup> |

### [Exposure controls]

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

## 9. Physical and chemical properties

### [Information on basic physical and chemical properties]

|               |  |
|---------------|--|
| Color         | : Blue   |
| State         | : Liquid   |
| Odor          | : slight odor  |
| pH            | : about 8.3  |
| Boiling point | : No information available.[Water 100.0°C]             |
| Melting point | : No information available.                            |
| Flash point   | : No information available.[Diethylene glycol 149.0°C] |

|                          |  |
|--------------------------|--|
| Autoignition temperature | : No information available.[Diethylene glycol 365.0°C] |
| Explosion limits         | : No information available.                            |
| Vapor density(air=1)     | : No information available.                            |
| Density                  | : about1.1   |
| Solubility in water      | : No information available.                            |
| Evaporation rate         | : No information available.                            |
| Volatile                 | : >80%   |
| [Other information]      | No information available.                              |

## 10. Stability and reactivity

|                                      |  |
|--------------------------------------|--|
| [Chemical stability]                 | This mixture is stable in normal temperature and pressure.   |
| [Reactivity]                         | No data available.   |
| [Conditions to avoid]                | Avoid heat, flames, sparks and other sources of ignition.<br>Avoid direct sunlight and high temperature. |
| [Incompatible materials]             | No information available.  |
| [Hazardous decomposition products]   | No information available.  |
| [Possibility of hazardous reactions] | No information available.  |

## 11. Toxicological information

|  |                                |
|--|--------------------------------|
| [Information on toxicological effects] |                                |
| Acute toxicity(oral)                   |                                |
| Not classified                         | : >2000 mg/kg (estimate value) |
| Acute toxicity(skin)                   |                                |
| Not classified                         | : >2000 mg/kg (estimate value) |
| Acute toxicity(inhalation:vapours)     |                                |
| Not classified                         | : >20 mg/L (estimate value)    |
| Skin corrosion/irritation              |                                |
| No information available.              |                                |
| Serious eye damage/Eye Irritation      |                                |
| No information available.              |                                |
| Respiratory sensitizer                 |                                |
| No information available.              |                                |
| Skin sensitizer                        |                                |
| No information available.              |                                |
| Germ cell mutagenicity                 |                                |
| No information available.              |                                |
| Carcinogenicity                        |                                |
| No information available.              |                                |
| Toxic to reproduction                  |                                |
| Diethylene glycol                      | : Category2                    |

Specific target organ systemic toxicity(single exposure)

No information available.

Specific target organ systemic toxicity(repeated exposure)

Diethylene glycol : Category1

Aspiration hazard

No information available.

Hazard to the Aquatic Environment (Acute)

No information available.

Hazard to the Aquatic Environment (Chronic)

No information available.

## 12. Ecological information

[Results of PBT and vPvB assessment]

No information available.

[Other adverse effects]

No information available.

## 13. Disposal considerations

[Waste treatment methods]

Dispose in accordance with all current regulations and standards.

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

## 14. Transport information

[Environmental hazards]

No information available.

[HS Code]

960810

[Special precautions for user]

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

## 15. Regulatory information

Information of this section is about the ink.

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

Follow all regulation in your country.

[Chemical safety assessment]

Ink or lead are manufactured in accordance with "ISO 8124-3 :2010 Safety of Toys – Part 3"

## 16. Other information

- The information is based on our present knowledge at the date of its publication, and designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.
- This shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

# SAFETY DATA SHEET

## 1. Product and Company Identification

[Product name] uni-ball eye Black (UB-150/157, UB-150-10) AUS

[File No.] 300076E

[Date of issue] 2020/02/25

### [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 Australia (ABN: 31 085 515 671)

Address: 674 Lorimar Street, Port Melbourne VIC 3207

Telephone number: 03 9646 5630  
(Only office hour are available.)

Emergency phone number: 03 9646 5630

## 2. Hazards identification

Information of this section is about the ink.

### [Classification of the substance or mixture]

#### PHYSICO-CHEMICAL HAZARDS

Not applicable.

#### HEALTH HAZARDS

|  |                               |
|--|-------------------------------|
| Acute toxicity(oral)                                       | : Not classified              |
| Acute toxicity(skin)                                       | : Not classified              |
| Acute toxicity(inhalation steam)                           | : Not classified              |
| Skin corrosion/irritation                                  | : Classification not possible |
| Serious eye damage/Eye Irritation                          | : Classification not possible |
| Respiratory sensitizer                                     | : Classification not possible |
| Skin sensitizer  | : Classification not possible |
| Germ cell mutagenicity                                     | : Classification not possible |
| Carcinogenicity  | : Category2                   |
| Toxic to reproduction                                      | : Category2                   |
| Specific target organ systemic toxicity(single exposure)   | : Classification not possible |
| Specific target organ systemic toxicity(repeated exposure) | : Category1                   |
| Aspiration hazard  | : Classification not possible |

#### ENVIRONMENTAL HAZARDS

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

### [Label elements]

Pictogram



Signal Word : Danger

Hazard Statement : Suspected of causing cancer  
: Suspected of damaging fertility or the unborn child

|                         |   |
|-------------------------|---|
|                         | : Causes damage to organs through prolonged or repeated exposure      |
| Precautionary Statement |   |
|                         | : Do not breathe dust/vapours etc..                                   |
|                         | : Do not eat, drink or smoke when using this product.                 |
|                         | : Use personal protective equipment as required. (Refer to Section 8) |
|                         | : Get medical advice/attention if you feel unwell.                    |
|                         | : IF exposed or concerned: Get medical advice/attention.              |
|                         | : Dispose in accordance with all current regulations and standards.   |
| [Other hazards]         | No information available.   |

### 3. Composition/information on ingredients

|  |                   |                          |
|--|-------------------|--------------------------|
| [The chemical product is a substance or a mixture] |                   | Mixture                  |
| [Chemical nature]                                  | [Component parts] | Ink                      |
| Chemical name                                      | Cas No.           | Concentration range(wt%) |
| Water  | 7732-18-5         | 50-80                    |
| 1,2-Propanediol                                    | 57-55-6           | < 10                     |
| Carbon black                                       | 1333-86-4         | < 10                     |
| Diethylene glycol                                  | 111-46-6          | < 10                     |
| Glycerine  | 56-81-5           | < 10                     |
| 2-Propanol   | 67-63-0           | < 1                      |

### 4. First aid measures

|  |   |
|--|---|
| [Description of first aid measures]  |   |
| Eye contact  | : Flush eyes with plenty of water for at least 15 minutes.<br>: Take off the contact lens if possible<br>: Consult medical advice depending on the symptoms.  |
| Skin contact   | : Wash skin.<br>: Consult medical advice depending on the symptoms.<br>: 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.<br>: Consult medical advice depending on the symptoms. |
| Inhalation   | : Due to its low vapor pressure inhalation is unlikely at room temperature.<br>: If not feeling well, move to an area of fresh air and rest.<br>: 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.<br>Wear suitable protective equipment. |

## 6. Accidental release measures

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

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

Wear appropriate protection gear.

Do not work in the leeward.

### [Environmental precautions]

Collect leaked material in empty container after leading outflow to a safe area containing earth and sand.

Do not allow leaked material to pollute rivers, lakes, etc.

### [Methods and material for containment and cleaning up]

Wipe off by dry cloth and wash with water.

Dispose of pollution or waste in accordance with national, state and local regulations.

### [Reference to other sections]

No information available.

## 7. Handling and storage

### [Precautions for safe handling]

Do not lick or swallow the ink.

Avoid contact with skin and eyes.

Recap after use (if there is a cap), and keep out of the reach of infants.

Don't shake.

### [Conditions for safe storage, including any incompatibilities]

Keep away from oxidizing materials, ignition sources, high temperature and direct sunlight.

Recommended temperature : 0–40°C

### [Specific end use(s)]

No information available.

## 8. Exposure controls/personal protection

### [Control parameters]

| Chemical name | OSHA | ACGIH                     |
|---------------|------|---------------------------|
| Carbon black  | –    | (TWA)3.5mg/m <sup>3</sup> |
| Glycerine     | –    | (TWA)10mg/m <sup>3</sup>  |

### [Exposure controls]

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

## 9. Physical and chemical properties

### [Information on basic physical and chemical properties]

|               |  |
|---------------|--|
| Color         | : Black                                    |
| State         | : Liquid                                   |
| Odor          | : 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.[1,2-Propanediol 99.0°C]    |
| Autoignition temperature | : No information available.[Diethylene glycol 365.0°C] |
| Explosion limits         | : No information available.                            |
| Vapor density(air=1)     | : No information available.                            |
| Density                  | : about 1.1  |
| Solubility in water      | : No information available.                            |
| Evaporation rate         | : No information available.                            |
| Volatile                 | : >70%   |
| [Other information]      | No information available.                              |

## 10. Stability and reactivity

|                                      |  |
|--------------------------------------|--|
| [Chemical stability]                 | This mixture is stable in normal temperature and pressure.   |
| [Reactivity]                         | No data available.   |
| [Conditions to avoid]                | Avoid heat, flames, sparks and other sources of ignition.<br>Avoid direct sunlight and high temperature. |
| [Incompatible materials]             | No information available.  |
| [Hazardous decomposition products]   | No information available.  |
| [Possibility of hazardous reactions] | No information available.  |

## 11. Toxicological information

|  |                                |
|--|--------------------------------|
| [Information on toxicological effects] |                                |
| Acute toxicity(oral)                   |                                |
| Not classified                         | : >2000 mg/kg (estimate value) |
| Acute toxicity(skin)                   |                                |
| Not classified                         | : >2000 mg/kg (estimate value) |
| Acute toxicity(inhalation:vapours)     |                                |
| Not classified                         | : >20 mg/L (estimate value)    |
| Skin corrosion/irritation              |                                |
| No information available.              |                                |
| Serious eye damage/Eye Irritation      |                                |
| No information available.              |                                |
| Respiratory sensitizer                 |                                |
| No information available.              |                                |
| Skin sensitizer                        |                                |
| No information available.              |                                |
| Germ cell mutagenicity                 |                                |
| No information available.              |                                |
| Carcinogenicity                        |                                |
| Carbon black                           | : Category 2                   |

## Toxic to reproduction

2-Propanol : Category2

Diethylene glycol : Category2

## Specific target organ systemic toxicity(single exposure)

No information available.

## Specific target organ systemic toxicity(repeated exposure)

Carbon black : Category1

Diethylene glycol : Category1

## Aspiration hazard

No information available.

## Hazard to the Aquatic Environment (Acute)

No information available.

## Hazard to the Aquatic Environment (Chronic)

No information available.

## 12. Ecological information

[Results of PBT and vPvB assessment]

No information available.

[Other adverse effects]

No information available.

## 13. Disposal considerations

[Waste treatment methods]

Dispose in accordance with all current regulations and standards.

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

## 14. Transport information

[Environmental hazards]

No information available.

[HS Code]

960810

[Special precautions for user]

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

## 15. Regulatory information

Information of this section is about the ink.

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

Follow all regulation in your country.

[Chemical safety assessment]

Ink or lead are manufactured in accordance with "ISO 8124-3 :2010 Safety of Toys – Part 3"

## 16. Other information

- The information is based on our present knowledge at the date of its publication, and designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.
- This shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

# SAFETY DATA SHEET

## 1. Product and Company Identification

[Product name] uni-ball eye Red (UB-150/157, UB-150-10) AUS

[File No.] 300077E

[Date of issue] 2020/02/25

[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 Australia (ABN:31 085 515 671)

Address: 674 Lorimar Street, Port Melbourne VIC 3207

Telephone number: 03 9646 5630  
(Only office hour are available.)

Emergency phone number: 03 9646 5630

## 2. Hazards identification

Information of this section is about the ink.

[Classification of the substance or mixture]

### PHYSICO-CHEMICAL HAZARDS

Not applicable.

### HEALTH HAZARDS

|  |                               |
|--|-------------------------------|
| Acute toxicity(oral)                                       | : Not classified              |
| Acute toxicity(skin)                                       | : Not classified              |
| Acute toxicity(inhalation steam)                           | : Not classified              |
| Skin corrosion/irritation                                  | : Classification not possible |
| Serious eye damage/Eye Irritation                          | : Classification not possible |
| Respiratory sensitizer                                     | : Classification not possible |
| Skin sensitizer  | : Classification not possible |
| Germ cell mutagenicity                                     | : Classification not possible |
| Carcinogenicity  | : Classification not possible |
| Toxic to reproduction                                      | : Category2                   |
| Specific target organ systemic toxicity(single exposure)   | : Classification not possible |
| Specific target organ systemic toxicity(repeated exposure) | : Category1                   |
| Aspiration hazard  | : Classification not possible |

### ENVIRONMENTAL HAZARDS

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

[Label elements]

Pictogram



Signal Word : Danger

Hazard Statement : Suspected of damaging fertility or the unborn child  
: Causes damage to organs through prolonged or repeated exposure

## Precautionary Statement

- : Do not breathe dust/vapours etc..
- : Do not eat, drink or smoke when using this product.
- : Use personal protective equipment as required.(Refer to Section 8)
- : Get medical advice/attention if you feel unwell.
- : IF exposed or concerned: Get medical advice/attention.
- : Dispose in accordance with all current regulations and standards.

[Other hazards]

No information available.

## 3. Composition/information on ingredients

|  |                   |                          |
|--|-------------------|--------------------------|
| [The chemical product is a substance or a mixture] |                   | Mixture                  |
| [Chemical nature]                                  | [Component parts] | Ink                      |
| Chemical name                                      | Cas No.           | Concentration range(wt%) |
| Water  | 7732-18-5         | 50-80                    |
| 1,2-Propanediol                                    | 57-55-6           | < 10                     |
| Diethylene glycol                                  | 111-46-6          | < 10                     |
| Glycerine  | 56-81-5           | < 10                     |

## 4. First aid measures

[Description of first aid measures]

- |              |   |
|--------------|---|
| Eye contact  | : Flush eyes with plenty of water for at least 15 minutes.<br>: Take off the contact lens if possible<br>: Consult medical advice depending on the symptoms.  |
| Skin contact | : Wash skin.<br>: Consult medical advice depending on the symptoms.<br>: 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.<br>: Consult medical advice depending on the symptoms. |
| Inhalation   | : Due to its low vapor pressure inhalation is unlikely at room temperature.<br>: If not feeling well, move to an area of fresh air and rest.<br>: 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 (if there is a cap), and keep out of the reach of infants.

Don't shake.

### [Conditions for safe storage, including any incompatibilities]

Keep away from oxidizing materials, ignition sources, high temperature and direct sunlight.

Recommended temperature : 0–40°C

### [Specific end use(s)]

No information available.

## 8. Exposure controls/personal protection

### [Control parameters]

| Chemical name | OSHA | ACGIH                    |
|---------------|------|--------------------------|
| Glycerine     | –    | (TWA)10mg/m <sup>3</sup> |

### [Exposure controls]

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

## 9. Physical and chemical properties

### [Information on basic physical and chemical properties]

|               |   |
|---------------|---|
| Color         | : Red   |
| State         | : Liquid  |
| Odor          | : slight odor                                       |
| pH            | : about 8.3   |
| Boiling point | : No information available.[Water 100.0°C]          |
| Melting point | : No information available.                         |
| Flash point   | : No information available.[1,2-Propanediol 99.0°C] |

|                          |  |
|--------------------------|--|
| Autoignition temperature | : No information available.[Diethylene glycol 365.0°C] |
| Explosion limits         | : No information available.                            |
| Vapor density(air=1)     | : No information available.                            |
| Density                  | : about1.1   |
| Solubility in water      | : No information available.                            |
| Evaporation rate         | : No information available.                            |
| Volatile                 | : >80%   |
| [Other information]      | No information available.                              |

## 10. Stability and reactivity

|                                      |  |
|--------------------------------------|--|
| [Chemical stability]                 | This mixture is stable in normal temperature and pressure.   |
| [Reactivity]                         | No data available.   |
| [Conditions to avoid]                | Avoid heat, flames, sparks and other sources of ignition.<br>Avoid direct sunlight and high temperature. |
| [Incompatible materials]             | No information available.  |
| [Hazardous decomposition products]   | No information available.  |
| [Possibility of hazardous reactions] | No information available.  |

## 11. Toxicological information

|  |                                |
|--|--------------------------------|
| [Information on toxicological effects] |                                |
| Acute toxicity(oral)                   |                                |
| Not classified                         | : >2000 mg/kg (estimate value) |
| Acute toxicity(skin)                   |                                |
| Not classified                         | : >2000 mg/kg (estimate value) |
| Acute toxicity(inhalation:vapours)     |                                |
| Not classified                         | : >20 mg/L (estimate value)    |
| Skin corrosion/irritation              |                                |
| No information available.              |                                |
| Serious eye damage/Eye Irritation      |                                |
| No information available.              |                                |
| Respiratory sensitizer                 |                                |
| No information available.              |                                |
| Skin sensitizer                        |                                |
| No information available.              |                                |
| Germ cell mutagenicity                 |                                |
| No information available.              |                                |
| Carcinogenicity                        |                                |
| No information available.              |                                |
| Toxic to reproduction                  |                                |
| Diethylene glycol                      | : Category2                    |

Specific target organ systemic toxicity(single exposure)

No information available.

Specific target organ systemic toxicity(repeated exposure)

Diethylene glycol : Category1

Aspiration hazard

No information available.

Hazard to the Aquatic Environment (Acute)

No information available.

Hazard to the Aquatic Environment (Chronic)

No information available.

## 12. Ecological information

[Results of PBT and vPvB assessment]

No information available.

[Other adverse effects]

No information available.

## 13. Disposal considerations

[Waste treatment methods]

Dispose in accordance with all current regulations and standards.

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

## 14. Transport information

[Environmental hazards]

No information available.

[HS Code]

960810

[Special precautions for user]

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

## 15. Regulatory information

Information of this section is about the ink.

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

Follow all regulation in your country.

[Chemical safety assessment]

Ink or lead are manufactured in accordance with "ISO 8124-3 :2010 Safety of Toys – Part 3"

## 16. Other information

- The information is based on our present knowledge at the date of its publication, and designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.
- This shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.