

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

## 1. Product and Company Identification

[Product name] **BLACK INK for uni-ball AIR [UBA-188-L]**

[File No.] **300189B**

[Date of issue] **2018/06/15**

### [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-Ethenediol

107-21-1

10-30

Acute Tox.4; H302

Glycerine

56-81-5

< 10

#### 4. First aid measures

##### [Description of first aid measures]

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

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

No information available.

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

No information available.

#### 5. Firefighting measures

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

##### [Special hazards arising from the substance or mixture]

No further relevant information available.

[Advice for firefighters] Stay upwind and keep out of low areas and avoid inhalation of material or combustion by-products.  
Wear suitable protective equipment.

#### 6. Accidental release measures

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

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

Wear appropriate protection gear.

Do not work in the leeward.

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

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

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

Wipe off by dry cloth and wash with water.

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

[Reference to other sections] No information available.

## 7. Handling and storage

### [Precautions for safe handling]

Do not lick or swallow the ink.

Avoid contact with skin and eyes.

Recap after use, and keep out of the reach of infants.

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

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

Use a container to fill up at the time of shipment.

Recommended temperature : 0–40°C

### [Specific end use(s)]

No information available.

## 8. Exposure controls/personal protection

### [Control parameters]

| Chemical name  | OSHA | ACGIH                      |
|----------------|------|----------------------------|
| 1,2-Ethanediol | –    | (STEL)100mg/m <sup>3</sup> |
| Glycerine      | –    | (TWA)10mg/m <sup>3</sup>   |

### [Exposure controls]

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

## 9. Physical and chemical properties

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

|                          |                                                     |
|--------------------------|-----------------------------------------------------|
| Color                    | : Black                                             |
| State                    | : Liquid                                            |
| Odor                     | : No information available.                         |
| pH                       | : about 8.2                                         |
| Boiling point            | : No information available.[Water 100.0°C]          |
| Melting point            | : No information available.                         |
| Flash point              | : No information available.[1,2-Ethanediol 111.0°C] |
| Autoignition temperature | : No information available.[1,2-Ethanediol 398.0°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.                         |
| [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.<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 : >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] | - |
|-----------------|---|

|                                |                                                                                                                                           |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| [Special precautions for user] | Check the container for any leakage. Load a cargo without a dropping or incurring damage, and take caution against collapse of container. |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|

## 15. Regulatory information

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

Follow all regulation in your country.

[Chemical safety assessment]

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

## 16. Other information

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

H302—Harmful if swallowed

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

## 1. Product and Company Identification

[Product name] BLUE INK for uni-ball AIR [UBA-188-L]

[File No.] 300190B

[Date of issue] 2018/06/15

### [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  | 10-30 | Acute Tox.4; H302 |
| 1,2-Propanediol | 57-55-6   | < 10  |                   |
| Glycerine       | 56-81-5   | < 10  |                   |
| Triethanolamine | 102-71-6  | < 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                      |
|-----------------|------|----------------------------|
| 1,2-Ethanediol  | –    | (STEL)100mg/m <sup>3</sup> |
| Glycerine       | –    | (TWA)10mg/m <sup>3</sup>   |
| Triethanolamine | –    | (TWA)5mg/m <sup>3</sup>    |

### [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                     | : No information available.                         |
| pH                       | : about 8.2                                         |
| Boiling point            | : No information available.[Water 100.0°C]          |
| Melting point            | : No information available.                         |
| Flash point              | : No information available.[1,2-Ethanediol 111.0°C] |
| Autoignition temperature | : No information available.[1,2-Ethanediol 398.0°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.                         |
| [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.<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 : >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] |  |
|-----------------|--|

-

|                                |                                                                                                                                           |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| [Special precautions for user] | Check the container for any leakage. Load a cargo without a dropping or incurring damage, and take caution against collapse of container. |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|

## 15. Regulatory information

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

Follow all regulation in your country.

[Chemical safety assessment]

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

## 16. Other information

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

H302—Harmful if swallowed

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

## 1. Product and Company Identification

[Product name] RED INK for uni-ball AIR [UBA-188-L] |

[File No.] 300191B

[Date of issue] 2018/06/15

### [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  | 10-30 | Acute Tox.4; H302 |
| 1,2-Propanediol | 57-55-6   | < 10  |                   |
| Glycerine       | 56-81-5   | < 10  |                   |
| Triethanolamine | 102-71-6  | < 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 with soap and water for at least 15 minutes while removing contaminated clothing and shoes.<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, and keep out of the reach of infants.

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

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

Use a container to fill up at the time of shipment.

Recommended temperature : 0–40°C

### [Specific end use(s)]

No information available.

## 8. Exposure controls/personal protection

### [Control parameters]

| Chemical name   | OSHA | ACGIH                      |
|-----------------|------|----------------------------|
| 1,2-Ethanediol  | –    | (STEL)100mg/m <sup>3</sup> |
| Glycerine       | –    | (TWA)10mg/m <sup>3</sup>   |
| Triethanolamine | –    | (TWA)5mg/m <sup>3</sup>    |

### [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                     | : No information available.                         |
| pH                       | : about 8.2                                         |
| Boiling point            | : No information available.[Water 100.0°C]          |
| Melting point            | : No information available.                         |
| Flash point              | : No information available.[1,2-Ethanediol 111.0°C] |
| Autoignition temperature | : No information available.[1,2-Ethanediol 398.0°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.                         |
| [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.<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 : >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] | - |
|-----------------|---|

|                                |                                                                                                                                           |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| [Special precautions for user] | Check the container for any leakage. Load a cargo without a dropping or incurring damage, and take caution against collapse of container. |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|

## 15. Regulatory information

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

Follow all regulation in your country.

[Chemical safety assessment]

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

## 16. Other information

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

H302—Harmful if swallowed