

# SAFETY DATA SHEET

## 1. Product and Company Identification

[Product name] UMN-207 Black

[File No.] 305127E

[Date of issue] 2014/10/29

[Details of Manufacture]

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

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

Telephone number: 03-3458-6281      telefax number: 03-3450-0363  
(Only office hour are available.)

## 2. Hazards identification

Information of this section is about the ink.

[Classification of the substance or mixture]

### PHYSICO-CHEMICAL HAZARDS

Not applicable.

### HEALTH HAZARDS

Acute toxicity(oral)	: Not classified
Acute toxicity(skin)	: Not classified
Acute toxicity(inhalation steam)	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/Eye Irritation	: Not classified
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)	: Category1
Specific target organ systemic toxicity(repeated exposure)	: Category1
Aspiration hazard	: Not classified

### ENVIRONMENTAL HAZARDS

Hazard to the Aquatic Environment (Acute)	: Not classified
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  
: 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 [ Ink quantity of product :about 1.1g]
Chemical name	Cas No.	Concentration range(wt%)
Water	7732-18-5	50-80
Diethylene glycol	111-46-6	10-30
1,2-Ethanediol	107-21-1	<10
Carbon black	1333-86-4	<10
Additive	Trade secret	<10
Resin	Trade secret	<10

### 4. First aid measures

[Description of first aid measures]

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

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

No information available.

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

No information available.

### 5. Firefighting measures

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

[Special hazards arising from the substance or mixture]

No further relevant information available.

[Advice for firefighters]

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

### 6. Accidental release measures

[Personal precautions, protective equipment and emergency procedures]

Rope off the area to contain the leak and prohibit entrance except for authorized persons.  
Wear appropriate protection gear.  
Do not work in windward direction.

[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/m3
1,2-Ethanediol	-	(STEL)100mg/m3

[Exposure controls]	
Protective equipment	: Not required.
Respiratory protection	: Not required.
Hands protection	: Not required.
Eye protection	: Not required.
Skin protection	: Not required.

## 9. Physical and chemical properties

[Information on basic physical and chemical properties]	
Color	: Black
State	: Liquid
Odor	: No information available.
pH	: about 7.3
Boiling point	: No information available.[Water 100°C]
Melting point	: No information available.
Flash point	: No information available.[Diethylene glycol 149°C]
Autoignition temperature	: No information available.[Diethylene glycol 365°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 : >80%  
[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 : >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)

1,2-Ethanediol : Category1

## Specific target organ systemic toxicity(repeated exposure)

1,2-Ethanediol : 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

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

TSCA : Listed on the TSCA inventory or polymer substance.

[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.

# SAFETY DATA SHEET

## 1. Product and Company Identification

[Product name] UMN-207 Blue

[File No.] 305129E

[Date of issue] 2014/10/29

[Details of Manufacture]

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

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

Telephone number: 03-3458-6281      telefax number: 03-3450-0363  
(Only office hour are available.)

## 2. Hazards identification

Information of this section is about the ink.

[Classification of the substance or mixture]

### PHYSICO-CHEMICAL HAZARDS

Not applicable.

### HEALTH HAZARDS

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

### 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[ Ink quantity of product :about 1.1g]
Chemical name	Cas No.	Concentration range(wt%)
Water	7732-18-5	50-80
Diethylene glycol	111-46-6	10-30
Additive	Trade secret	<10
Coloring agent	Trade secret	<10

### 4. First aid measures

[Description of first aid measures]

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

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

No information available.

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

No information available.

### 5. Firefighting measures

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

[Special hazards arising from the substance or mixture]

No further relevant information available.

[Advice for firefighters]

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

Wear suitable protective equipment.

### 6. Accidental release measures

[Personal precautions, protective equipment and emergency procedures]

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

Wear appropriate protection gear.

Do not work in windward direction.

[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**

## [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	: No information available.
pH	: about 7.3
Boiling point	: No information available.[Water 100°C]
Melting point	: No information available.
Flash point	: No information available.[Diethylene glycol 149°C]
Autoignition temperature	: No information available.[Diethylene glycol 365°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	: >80%

## [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 : >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

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

TSCA : Listed on the TSCA inventory or polymer substance.

[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.

# SAFETY DATA SHEET

## 1. Product and Company Identification

[Product name] UMN-207 Red

[File No.] 305128E

[Date of issue] 2014/10/29

[Details of Manufacture]

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

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

Telephone number: 03-3458-6281      telefax number: 03-3450-0363  
(Only office hour are available.)

## 2. Hazards identification

Information of this section is about the ink.

[Classification of the substance or mixture]

### PHYSICO-CHEMICAL HAZARDS

Not applicable.

### HEALTH HAZARDS

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

### 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[ Ink quantity of product :about 1.1g]
Chemical name	Cas No.	Concentration range(wt%)
Water	7732-18-5	50-80
Diethylene glycol	111-46-6	10-30
Additive	Trade secret	<10
Coloring agent	Trade secret	<10

### 4. First aid measures

[Description of first aid measures]

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

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

No information available.

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

No information available.

### 5. Firefighting measures

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

[Special hazards arising from the substance or mixture]

No further relevant information available.

[Advice for firefighters]

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

Wear suitable protective equipment.

### 6. Accidental release measures

[Personal precautions, protective equipment and emergency procedures]

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

Wear appropriate protection gear.

Do not work in windward direction.

[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**

## [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	: No information available.
pH	: about 7.3
Boiling point	: No information available.[Water 100°C]
Melting point	: No information available.
Flash point	: No information available.[Diethylene glycol 149°C]
Autoignition temperature	: No information available.[Diethylene glycol 365°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	: >80%

## [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 : >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**

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**

TSCA : Listed on the TSCA inventory or polymer substance.

[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.

# SAFETY DATA SHEET

## 1. Product and Company Identification

[Product name] UMN-207 Blue black

[File No.] 305122E

[Date of issue] 2014/10/29

[Details of Manufacture]

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

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

Telephone number: 03-3458-6281      telefax number: 03-3450-0363  
(Only office hour are available.)

## 2. Hazards identification

Information of this section is about the ink.

[Classification of the substance or mixture]

### PHYSICO-CHEMICAL HAZARDS

Not applicable.

### HEALTH HAZARDS

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

### 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[ Ink quantity of product :about 1.1g]
Chemical name	Cas No.	Concentration range(wt%)
Water	7732-18-5	50-80
Diethylene glycol	111-46-6	10-30
Additive	Trade secret	<10
Coloring agent	Trade secret	<10
Carbon black	1333-86-4	<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.  
: 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 windward direction.

[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

[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 black
State	: Liquid
Odor	: No information available.
pH	: about 7.3
Boiling point	: No information available.[Water 100°C]
Melting point	: No information available.
Flash point	: No information available.[Diethylene glycol 149°C]
Autoignition temperature	: No information available.[Diethylene glycol 365°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	: >80%

[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 : >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

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

TSCA : Listed on the TSCA inventory or polymer substance.

[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.

# SAFETY DATA SHEET

## 1. Product and Company Identification

[Product name] UMN-207 Orange

[File No.] 305124E

[Date of issue] 2014/10/29

[Details of Manufacture]

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

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

Telephone number: 03-3458-6281      telefax number: 03-3450-0363  
(Only office hour are available.)

## 2. Hazards identification

Information of this section is about the ink.

[Classification of the substance or mixture]

### PHYSICO-CHEMICAL HAZARDS

Not applicable.

### HEALTH HAZARDS

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

### 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[ Ink quantity of product :about 1.1g]
Chemical name	Cas No.	Concentration range(wt%)
Water	7732-18-5	50-80
Diethylene glycol	111-46-6	10-30
Additive	Trade secret	10-30
Coloring agent	Trade secret	<10

### 4. First aid measures

[Description of first aid measures]

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

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

No information available.

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

No information available.

### 5. Firefighting measures

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

[Special hazards arising from the substance or mixture]

No further relevant information available.

[Advice for firefighters]

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

Wear suitable protective equipment.

### 6. Accidental release measures

[Personal precautions, protective equipment and emergency procedures]

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

Wear appropriate protection gear.

Do not work in windward direction.

[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**

## [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 : Orange

State : Liquid

Odor : No information available.

pH : about 7.3

Boiling point : No information available.[Water 100°C]

Melting point : No information available.

Flash point : No information available.[Additive 99°C]

Autoignition temperature : No information available.[Diethylene glycol 365°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 : &gt;80%

## [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 : >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

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

TSCA : Listed on the TSCA inventory or polymer substance.

[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.

# SAFETY DATA SHEET

## 1. Product and Company Identification

[Product name] UMN-207 Green

[File No.] 305125E

[Date of issue] 2014/10/29

[Details of Manufacture]

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

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

Telephone number: 03-3458-6281      telefax number: 03-3450-0363  
(Only office hour are available.)

## 2. Hazards identification

Information of this section is about the ink.

[Classification of the substance or mixture]

### PHYSICO-CHEMICAL HAZARDS

Not applicable.

### HEALTH HAZARDS

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

### 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[ Ink quantity of product :about 1.1g]
Chemical name	Cas No.	Concentration range(wt%)
Water	7732-18-5	50-80
Diethylene glycol	111-46-6	10-30
Additive	Trade secret	<10
Coloring agent	Trade secret	<10

### 4. First aid measures

[Description of first aid measures]

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

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

No information available.

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

No information available.

### 5. Firefighting measures

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

[Special hazards arising from the substance or mixture]

No further relevant information available.

[Advice for firefighters]

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

Wear suitable protective equipment.

### 6. Accidental release measures

[Personal precautions, protective equipment and emergency procedures]

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

Wear appropriate protection gear.

Do not work in windward direction.

[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**

## [Exposure controls]

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

**9. Physical and chemical properties**

## [Information on basic physical and chemical properties]

Color	: Green
State	: Liquid
Odor	: No information available.
pH	: about 7.3
Boiling point	: No information available.[Water 100°C]
Melting point	: No information available.
Flash point	: No information available.[Diethylene glycol 149°C]
Autoignition temperature	: No information available.[Diethylene glycol 365°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	: >80%

## [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 : >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

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

TSCA : Listed on the TSCA inventory or polymer substance.

[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.

# SAFETY DATA SHEET

## 1. Product and Company Identification

[Product name] UMN-207 Light blue

[File No.] 305121E

[Date of issue] 2014/10/29

[Details of Manufacture]

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

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

Telephone number: 03-3458-6281      telefax number: 03-3450-0363  
(Only office hour are available.)

## 2. Hazards identification

Information of this section is about the ink.

[Classification of the substance or mixture]

### PHYSICO-CHEMICAL HAZARDS

Not applicable.

### HEALTH HAZARDS

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

### 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[ Ink quantity of product :about 1.1g]
Chemical name	Cas No.	Concentration range(wt%)
Water	7732-18-5	50-80
Diethylene glycol	111-46-6	10-30
Additive	Trade secret	<10
Coloring agent	Trade secret	<10
Resin	Trade secret	<10

### 4. First aid measures

[Description of first aid measures]

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

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

No information available.

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

No information available.

### 5. Firefighting measures

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

[Special hazards arising from the substance or mixture]

No further relevant information available.

[Advice for firefighters]

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

Wear suitable protective equipment.

### 6. Accidental release measures

[Personal precautions, protective equipment and emergency procedures]

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

Wear appropriate protection gear.

Do not work in windward direction.

[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

[Exposure controls]

Protective equipment : Not required.

Respiratory protection : Not required.

Hands protection : Not required.

Eye protection : Not required.

Skin protection : Not required.

## 9. Physical and chemical properties

[Information on basic physical and chemical properties]

Color : Light blue

State : Liquid

Odor : No information available.

pH : about 7.3

Boiling point : No information available.[Water 100°C]

Melting point : No information available.

Flash point : No information available.[Diethylene glycol 149°C]

Autoignition temperature : No information available.[Diethylene glycol 365°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 : >90%

[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 : >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**

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**

TSCA : Listed on the TSCA inventory or polymer substance.

[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.

# SAFETY DATA SHEET

## 1. Product and Company Identification

[Product name] UMN-207 Violet

[File No.] 305126E

[Date of issue] 2014/10/29

[Details of Manufacture]

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

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

Telephone number: 03-3458-6281      telefax number: 03-3450-0363  
(Only office hour are available.)

## 2. Hazards identification

Information of this section is about the ink.

[Classification of the substance or mixture]

### PHYSICO-CHEMICAL HAZARDS

Not applicable.

### HEALTH HAZARDS

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

### 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[ Ink quantity of product :about 1.1g]
Chemical name	Cas No.	Concentration range(wt%)
Water	7732-18-5	50-80
Diethylene glycol	111-46-6	10-30
Additive	Trade secret	<10
Coloring agent	Trade secret	<10

### 4. First aid measures

[Description of first aid measures]

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

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

No information available.

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

No information available.

### 5. Firefighting measures

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

[Special hazards arising from the substance or mixture]

No further relevant information available.

[Advice for firefighters]

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

Wear suitable protective equipment.

### 6. Accidental release measures

[Personal precautions, protective equipment and emergency procedures]

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

Wear appropriate protection gear.

Do not work in windward direction.

[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**

## [Exposure controls]

Protective equipment : Not required.

Respiratory protection : Not required.

Hands protection : Not required.

Eye protection : Not required.

Skin protection : Not required.

**9. Physical and chemical properties**

## [Information on basic physical and chemical properties]

Color : Violet

State : Liquid

Odor : No information available.

pH : about 7.3

Boiling point : No information available.[Water 100°C]

Melting point : No information available.

Flash point : No information available.[Diethylene glycol 149°C]

Autoignition temperature : No information available.[Diethylene glycol 365°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 : &gt;90%

## [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 : >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

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

TSCA : Listed on the TSCA inventory or polymer substance.

[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.



# SAFETY DATA SHEET

## 1. Product and Company Identification

[Product name] UMN-207 Pink

[File No.] 305123E

[Date of issue] 2014/10/29

[Details of Manufacture]

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

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

Telephone number: 03-3458-6281      telefax number: 03-3450-0363  
(Only office hour are available.)

## 2. Hazards identification

Information of this section is about the ink.

[Classification of the substance or mixture]

### PHYSICO-CHEMICAL HAZARDS

Not applicable.

### HEALTH HAZARDS

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

### 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[ Ink quantity of product :about 1.1g]
Chemical name	Cas No.	Concentration range(wt%)
Water	7732-18-5	50-80
Diethylene glycol	111-46-6	10-30
Coloring agent	Trade secret	10-30
Additive	Trade secret	<10

### 4. First aid measures

[Description of first aid measures]

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

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

No information available.

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

No information available.

### 5. Firefighting measures

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

[Special hazards arising from the substance or mixture]

No further relevant information available.

[Advice for firefighters]

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

Wear suitable protective equipment.

### 6. Accidental release measures

[Personal precautions, protective equipment and emergency procedures]

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

Wear appropriate protection gear.

Do not work in windward direction.

[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**

## [Exposure controls]

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

**9. Physical and chemical properties**

## [Information on basic physical and chemical properties]

Color	: Pink
State	: Liquid
Odor	: No information available.
pH	: about 7.3
Boiling point	: No information available.[Water 100°C]
Melting point	: No information available.
Flash point	: No information available.[Diethylene glycol 149°C]
Autoignition temperature	: No information available.[Diethylene glycol 365°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	: >80%

## [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 : >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

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

TSCA : Listed on the TSCA inventory or polymer substance.

[Chemical safety assessment]

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

## 16. Other information

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