

## Safety Data Sheet (SDS)

Preparation Date 2015/09/28

Revision Date 2017/09/01

## Section 1 - CHEMICALS AND COMPANY IDENTIFICATION

|  |  |
|--|--|
| Chemical Identifier                    | OPF8-A   |
| Product Code                           | OPF8A00002   |
| Company Name                           | PENTEL CO., LTD.   |
| Address                                | 7-2,KOAMICHO,NIHONBASHI,CHUO-KU,TOKYO                        |
| Company Contact                        | QUALITY ASSURANCE DEPARTMENT I                               |
| Phone Number                           | 03-5695-7210   |
| Fax Number                             | 03-5645-8204   |
| Mail Address                           | hinpo@pentel.co.jp   |
| Australian Co.                         | PENTEL AUSTRALIA PTY LTD                                     |
| Address                                | Unit 4, 12 Mars Road, Lane Cove West NSW 2066                |
| Company Contact                        | Customer Service   |
| Mail Address                           | <a href="mailto:sales@pentel.com.au">sales@pentel.com.au</a> |
| Emergency Phone Number                 | 02 9425 4800   |
| Recommended Use and Restriction on Use | ink<br><br>MMP20-A、MSP20-A、MWP30-A                           |

## Section 2 - HAZARDS IDENTIFICATION

## GHS Classification

|                         |  |
|-------------------------|--|
| Physicochemical Hazards | Flammable liquids Category 3   |
| Health Hazards          | Serious eye damage/eye irritation Category 2B<br>Carcinogenicity Category 2<br>Specific target organ toxicity (single exposure) Category 3(narcotic effect,respiratory tract irritation)   |
| Environmental Hazards   | Specific target organ toxicity (repeated exposure) Category 2(lung)<br>Hazardous to the aquatic environment (acute) Category 2<br>Hazardous to the aquatic environment (long-term) Category 2<br>Other hazards than mentioned above are Not applicable or Classification not possible. |

## GHS Label Elements

## Symbols



|                          |  |
|--------------------------|--|
| Signal Word              | Warning  |
| Hazard Statements        | H226 Flammable liquid and vapour<br>H320 Causes eye irritation<br>H335 May cause respiratory irritation<br>H336 May cause drowsiness and dizziness<br>H351 Suspected of causing cancer<br>H373 May cause damage to lung through prolonged or repeated exposure<br>H411 Toxic to aquatic life with long lasting effects   |
| Precautionary Statements |  |
| Prevention               | Do not handle until all safety precautions have been read and understood.(P202)  |
| Precautionary Statements | Keep away from heat, sparks, open flames and hot surfaces. No smoking.(P210)<br>Keep container tightly closed.(P233)<br>Avoid breathing gas.(P261)<br>Avoid breathing mist, vapours and spray.(P261)<br>Avoid breathing dust and fume.(P261)<br>Wash eye thoroughly after handling.(P264)<br>Wash hand thoroughly after handling.(P264)<br>Use only outdoors or in a well-ventilated area.(P271) |
| Response                 | Wear protective gloves, eye protection and face protection.(P280)  |
| Precautionary Statements | IF ON SKIN: Wash with plenty of soap and water.(P302+P352)<br>If skin irritation or rash occurs, get medical advice and attention.(P333+P313)<br>IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.(P304+P340)  |
|                          | Get medical advice and attention if you feel unwell.(P314)<br>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.(P305+P351+P338)   |
|                          | If eye irritation persists: Get medical advice and attention.(P337+P313)   |
| Storage                  | Store in a well-ventilated place keeping container tightly closed.(P403+P233)  |
| Precautionary Statements | Store locked up.(P405)   |

Disposal  
Precautionary  
Statements

Dispose of contents and container in accordance with local, regional and national regulations (to be specified).(P501)

### Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Distinction of Substance or  
Mixture

Mixture

| Chemical Name or Generic Name           | Concentration or Its Ranges | Formula                        | ENCs No./ISHL No. |          | CAS RN    |
|---|-----------------------------|--------------------------------|-------------------|----------|-----------|
|   |                             |                                | ENCs No.          | ISHL No. |           |
| Propyleneglycol monomethylether acetate | 61.4%                       |                                | (2)-3144          | Existing | 108-65-6  |
| Ethylcyclohexane                        | 14.34%                      | C <sub>8</sub> H <sub>16</sub> | (3)-2231          | Existing | 1678-91-7 |
| Carbon black                            | 4.73%                       |                                | Unknown           | Unknown  | 1333-86-4 |
| Nitrocellulose                          | 4.73%                       |                                | (8)-176           | Existing | 9004-70-0 |

Impurities and/or  
Stabilizing Additives which  
Contribute to the  
Classification

No information available

### Section 4 - FIRST AID MEASURES

Inhalation

Remove person to fresh air and keep comfortable for breathing.  
Get medical advice and attention if you feel unwell.

Skin Contact

Wash with plenty of soap and water.  
If skin irritation or rash occurs, get medical advice and attention.  
Get medical advice and attention if you feel unwell.

Eye Contact

Rinse cautiously with water for several minutes.  
When the ocular stimulation lasts, Seek medical treatment and advice.

Ingestion

Rinse mouth. Do NOT induce vomiting.  
Get medical advice and attention if you feel unwell.

### Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media

Dry chemicals, CO<sub>2</sub>, water spray or regular foam.

Unsuitable Extinguishing  
Media

Straight streams.

Protection of Fire Fighter

In fire fighting, wear respiratory protection and chemical protective clothing.

### Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions,  
Protective Equipment and  
Emergency Procedures

Wear appropriate personal protective equipment (Refer to "Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION") and avoid inhalation or contact with eyes and skin.

Environmental Precautions

Do not release into the environment.

Pay attention not to cause the influence on the environment by discharging into rivers.

This product is water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.

Methods and Equipment  
for Containment and  
Cleaning up

Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container.

Vacuum or sweep up material and place in a disposal container.

Remove from water surface by skimming or with suitable absorbents. Do not use dispersants.

Allow material to solidify, and scrape up.

After removal, flush contaminated area thoroughly with water.

Prevention Measures for  
Secondary Accidents

Removes all ignition sources promptly. (Prohibition of smoking, sparks, and flames in the surrounding area).

Prevent flowing into drain, sewage, basement, and closed area.

Remove thoroughly since the smooth and slippery surface will be formed on the floor.

## Section 7 - HANDLING AND STORAGE

Handling

Technical Measures

Provide ventilation system and use necessary personal protective equipment as described in "Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION".

Precautions for Safe  
Handling

Do not handle until all safety precautions have been read and understood.

Prohibit use of heat, sparks, and fire in the surrounding area.

Wash hand thoroughly after handling.

Avoid contact with eyes.

Use exhaust ventilation.

Avoid breathing dust and fume.

Avoid breathing gas.

Avoid breathing mist, vapours and spray.

|                                  |  |  |
|----------------------------------|--|--|
|                                  |  | Handle at a well-ventilated place.<br>Protect from high temperature and direct sunlight.   |
| Storage Precautionary Statements | Prevents Handling of Incompatible Substances or Mixtures | Refer to "Section 10 - STABILITY AND REACTIVITY".  |
|                                  | Specific Hygiene Measures                                | Wash hand thoroughly after handling.   |
|                                  | Conditions for Safe Storage                              | The storage facility should be designed with fire-proof construction and beams should use a non-combustible material.<br>The roof of a storage facility should be made of a non-combustible material and use metals or other lightweight non-combustible materials. No ceiling should be installed.<br>The storage floor should be protected from water penetration, or should have water-proof construction.<br>The storage floor should have penetration-proof construction against dangerous goods and be inclined adequately. A proper sump should be provided to catch any spills.<br>The storage facility should be provided with necessary lighting, lighting equipment, and ventilator to store and handle dangerous goods.<br>Refer to "Section 10 - STABILITY AND REACTIVITY". |
|                                  | Material Used in Packaging/Containers                    | Keep away from heat, sparks, open flames and hot surfaces. No smoking.<br>Have containers keep away from direct sunlight and heat.<br>Store in a well-ventilated and cool place keeping container tightly closed.<br>Store locked up.<br>Use containers prescribed in the "Fire Service Law (Japan)" and the "UN Transport Regulations".   |

## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

|                               |                        |  |
|-------------------------------|------------------------|--|
| Personal Protective Equipment | Engineering Controls   | Use explosion-proof electrical, ventilating and lighting equipment.<br>Good general ventilation should be sufficient to control airborne levels. |
|                               | Respiratory Protection | Use personal respiratory equipment as required.  |
|                               | Hand Protection        | Wear protective gloves.  |
|                               | Eye Protection         | Wear eye protection.   |

### Skin and Body Protection

Protection glasses (ordinary glasses, ordinary glasses with side shields, and goggles).

Wear face protection.

Use personal protective clothing and face protection as required.

## Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

|  |                |                       |
|--|----------------|-----------------------|
| Appearance                               | Physical State | liquid                |
|  | Form           | liquid                |
|  | Colour         | black                 |
| Odour                                    |                | characteristic        |
| Odour threshold                          |                | No data available     |
| pH                                       |                | No data available     |
| Melting Point/Freezing Point             |                | No data available     |
| Initial Boiling Point and Boiling Ranges |                | No data available     |
| Flash Point                              |                | 24°C (Tag Closed Cup) |
| Evaporation Rate                         |                | No data available     |
| Flammability (solid, gas)                |                | No data available     |
| Flammability or Explosive Limits         | Lower Limit    | No data available     |
|  | Upper Limit    | No data available     |
| Vapour Pressure                          |                | No data available     |
| Vapour Density                           |                | No data available     |
| Specific Gravity (Density)               |                | No data available     |
| Partition Coefficient : n-Octanol/Water  |                | No data available     |
| Auto-Ignition Temperature                |                | No data available     |
| Decomposition Temperature                |                | No data available     |
| Viscosity                                |                | No data available     |
| Kinematic viscosity                      |                | No data available     |

## Section 10 - STABILITY AND REACTIVITY

|                                     |                   |
|-------------------------------------|-------------------|
| Reactivity                          | No data available |
| Chemical stability                  | No data available |
| Possibility of Hazardous Reaction   | No data available |
| Conditions to Avoid                 | No data available |
| Incompatible Substances or Mixtures | No data available |
| Hazardous Decomposition Products    | No data available |

**Section 11 - TOXICOLOGICAL INFORMATION**

|  |                          |
|--|--------------------------|
| Acute Toxicity                                     | No information available |
| Skin Corrosion/Irritation                          | No data available        |
| Serious eye damage/eye irritation                  | No data available        |
| Respiratory or Skin Sensitization                  | No data available        |
| Germ Cell Mutagenicity                             | No data available        |
| Carcinogenicity                                    | No data available        |
| Reproductive Toxicity                              | No data available        |
| Specific target organ toxicity (single exposure)   | No data available        |
| Specific target organ toxicity (repeated exposure) | No data available        |
| Aspiration Hazard                                  | No data available        |

**Section 12 - ECOLOGICAL INFORMATION**

|  |                   |
|--|-------------------|
| Hazardous to the aquatic environment (acute)     | No data available |
| Hazardous to the aquatic environment (long-term) | No data available |
| Hazardous to the ozone layer                     | No data available |

**Section 13 - DISPOSAL CONSIDERATIONS**

|                                      |  |
|--------------------------------------|--|
| Residual Waste                       | <p>Disposal should be in accordance with applicable regulations and standards by the respective local governments.</p> <p>Commission a waste disposal company, or a local public body who are licensed by local or regional government, to dispose of the material.</p> <p>When commissioning the disposal to a disposal company, notify the danger and toxicity thoroughly to the company.</p> <p>Do not release waste liquid containing the product and used water for cleansing into rivers, etc., or do not discharge the concerned wastes intact for reclamation.</p> |
| Contaminated Container and Packaging | <p>Recycle containers after cleansing, or carry out the disposal under the related laws and regulations and the standards of the local governments.</p> <p>In case of disposal of empty containers, remove the content thoroughly.</p>   |

## Section 14 - TRANSPORT INFORMATION

|                                 |  |   |
|---------------------------------|--|---|
| International Regulations       | Regulatory Information by Sea  | Conform to the provisions of IMO.                       |
|                                 | UN No.   | 1263  |
|                                 | Proper Shipping Name   | PAINT RELATED MATERIAL                                  |
|                                 | Class  | 3   |
|                                 | Packing Group  | III   |
|                                 | Marine Pollutant   | Not applicable  |
|                                 | Transport in bulk according to MARPOL 73/78,Annex II ,and the IBC code | Not applicable  |
|                                 | Regulatory Information by Air  | Conform to the provisions of ICAO/IATA.                 |
|                                 | UN No.   | 1263  |
|                                 | Proper Shipping Name   | PAINT RELATED MATERIAL                                  |
| Regulations in Japan            | Class  | 3   |
|                                 | Packing Group  | III   |
|                                 | Regulatory Information by Road or Rail                                 | Not applicable  |
|                                 | Regulatory Information by Sea  | Conform to the provisions of the Ship Safety Law.       |
|                                 | UN No.   | 1263  |
|                                 | Proper Shipping Name.  | PAINT RELATED MATERIAL                                  |
|                                 | Class  | 3   |
|                                 | Packing Group  | III   |
|                                 | Marine Pollutant   | Not applicable  |
|                                 | Transport in bulk according to MARPOL 73/78,Annex II ,and the IBC code | Not applicable  |
| Emergency Response Guide Number | Regulatory Information by Air  | Conform to the provisions of the Civil Aeronautics Law. |
|                                 | UN No.   | 1263  |
|                                 | Proper Shipping Name.  | PAINT RELATED MATERIAL                                  |
|                                 | Class  | 3   |
|                                 | Packing Group  | III   |

## Section 15 - REGULATORY INFORMATION

Regulatory information with regard to this product in your country or in your region should be examined by your own responsibility.

## Section 16 - OTHER INFORMATION

Information Contact

No information available

Other Property

This information is furnished without warranty express or implied.

This information is believed to be accurate to the best knowledge of PENTEL Co., Ltd. but not assumes leagal responsibility for use of or reliance upon this information.

## Safety Data Sheet (SDS)

Preparation Date 2015/09/28

Revision Date 2017/09/01

## Section 1 - CHEMICALS AND COMPANY IDENTIFICATION

|  |  |
|--|--|
| Chemical Identifier                    | OPF8-B   |
| Product Code                           | OPF8B00002   |
| Company Name                           | PENTEL CO., LTD.   |
| Address                                | 7-2,KOAMICHO,NIHONBASHI,CHUO-KU,TOKYO                        |
| Company Contact                        | QUALITY ASSURANCE DEPARTMENT I                               |
| Phone Number                           | 03-5695-7210   |
| Fax Number                             | 03-5645-8204   |
| Mail Address                           | hinpo@pentel.co.jp   |
| Australian Co.                         | PENTEL AUSTRALIA PTY LTD                                     |
| Address                                | Unit 4, 12 Mars Road, Lane Cove West NSW 2066                |
| Company Contact                        | Customer Service   |
| Mail Address                           | <a href="mailto:sales@pentel.com.au">sales@pentel.com.au</a> |
| Emergency Phone Number                 | 02 9425 4800   |
| Recommended Use and Restriction on Use | ink<br><br>MMP20-B, MSP20-B, MWP30-B, MMPINK-B               |

## Section 2 - HAZARDS IDENTIFICATION

## GHS Classification

|                         |   |
|-------------------------|---|
| Physicochemical Hazards | Flammable liquids Category 3  |
| Health Hazards          | Serious eye damage/eye irritation Category 2B<br>Carcinogenicity Category 2<br>Specific target organ toxicity (single exposure) Category 3(narcotic effect,respiratory tract irritation)                        |
| Environmental Hazards   | Hazardous to the aquatic environment (acute) Category 2<br>Hazardous to the aquatic environment (long-term) Category 2<br>Other hazards than mentioned above are Not applicable or Classification not possible. |

## GHS Label Elements

## Symbols



## Signal Word

Warning

|                          |  |
|--------------------------|--|
| Hazard Statements        | H226 Flammable liquid and vapour<br>H320 Causes eye irritation<br>H335 May cause respiratory irritation<br>H336 May cause drowsiness and dizziness<br>H351 Suspected of causing cancer<br>H411 Toxic to aquatic life with long lasting effects   |
| Precautionary Statements |  |
| Prevention               | Do not handle until all safety precautions have been read and understood.(P202)  |
| Precautionary Statements | Keep away from heat, sparks, open flames and hot surfaces. No smoking.(P210)<br>Keep container tightly closed.(P233)<br>Avoid breathing gas.(P261)<br>Avoid breathing mist, vapours and spray.(P261)<br>Avoid breathing dust and fume.(P261)<br>Wash eye thoroughly after handling.(P264)<br>Wash hand thoroughly after handling.(P264)<br>Use only outdoors or in a well-ventilated area.(P271) |
| Response                 | Wear protective gloves, eye protection and face protection.(P280)  |
| Precautionary Statements | IF ON SKIN: Wash with plenty of soap and water.(P302+P352)<br><br>If skin irritation or rash occurs, get medical advice and attention.(P333+P313)<br>IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.(P304+P340)  |
|                          | Get medical advice and attention if you feel unwell.(P314)<br>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.(P305+P351+P338)   |
| Storage                  | If eye irritation persists: Get medical advice and attention.(P337+P313)   |
| Precautionary Statements | Store in a well-ventilated place keeping container tightly closed.(P403+P233)  |
|                          | Store locked up.(P405)   |
| Disposal                 | Dispose of contents and container in accordance with local, regional and national regulations (to be specified).(P501)   |
| Precautionary Statements |  |

## Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Distinction of Substance or  
Mixture

Mixture

| Chemical Name or Generic Name           | Concentration or Its Ranges | Formula | ENCS No./ISHL No.   |          | CAS RN     |
|---|-----------------------------|---------|---------------------|----------|------------|
|   |                             |         | ENCS No.            | ISHL No. |            |
| Propyleneglycol monomethylether acetate | 60.5%                       |         | (2)-3144            | Existing | 108-65-6   |
| Ethylcyclohexane                        | 15%                         | C8H16   | (3)-2231            | Existing | 1678-91-7  |
| Nitrocellulose                          | 5.12%                       |         | (8)-176             | Existing | 9004-70-0  |
| Titanium dioxide                        | 3%                          | TiO2    | (1)-558<br>(5)-5225 | Existing | 13463-67-7 |

Impurities and/or  
Stabilizing Additives which  
Contribute to the  
Classification

No information available

#### Section 4 - FIRST AID MEASURES

Inhalation

Remove person to fresh air and keep comfortable for breathing.

Get medical advice and attention if you feel unwell.

Skin Contact

Wash with plenty of soap and water.

If skin irritation or rash occurs, get medical advice and attention.

Get medical advice and attention if you feel unwell.

Eye Contact

Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do.

Continue rinsing.

When the ocular stimulation lasts, Seek medical treatment and advice.

Ingestion

Rinse mouth. Do NOT induce vomiting.

Get medical advice and attention if you feel unwell.

#### Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media

Dry chemicals, CO2, water spray or regular foam.

Unsuitable Extinguishing

Straight streams.

Media

Protection of Fire Fighter

In fire fighting, wear respiratory protection and chemical protective clothing.

#### Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions,  
Protective Equipment and  
Emergency Procedures

Wear appropriate personal protective equipment (Refer to "Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION") and avoid inhalation or contact with eyes and skin.

Environmental Precautions

Do not release into the environment.

|   |  |
|---|--|
| Methods and Equipment<br>for Containment and<br>Cleaning up | Pay attention not to cause the influence on the environment by discharging into rivers.<br>This product is water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water. |
|   | Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.   |
|   | Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container.  |
|   | Vacuum or sweep up material and place in a disposal container.   |
|   | Remove from water surface by skimming or with suitable absorbents. Do not use dispersants.   |
| Prevention Measures for<br>Secondary Accidents              | Allow material to solidify, and scrape up.<br>After removal, flush contaminated area thoroughly with water.  |
|   | Removes all ignition sources promptly. (Prohibition of smoking, sparks, and flames in the surrounding area).   |
|   | Prevent flowing into drain, sewage, basement, and closed area.   |
|   | Remove thoroughly since the smooth and slippery surface will be formed on the floor.   |

## Section 7 - HANDLING AND STORAGE

|          |  |  |
|----------|--|--|
| Handling | Technical Measures                                       | Provide ventilation system and use necessary personal protective equipment as described in "Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION".  |
|          | Precautions for Safe Handling                            | Do not handle until all safety precautions have been read and understood.<br>Prohibit use of heat, sparks, and fire in the surrounding area.<br>Wash hand thoroughly after handling.<br>Avoid contact with eyes.<br>Use exhaust ventilation.<br>Avoid breathing dust and fume.<br>Avoid breathing gas.<br>Avoid breathing mist, vapours and spray.<br>Handle at a well-ventilated place.<br>Protect from high temperature and direct sunlight. |
|          | Prevents Handling of Incompatible Substances or Mixtures | Refer to "Section 10 - STABILITY AND REACTIVITY".  |

|                                  |                                       |  |
|----------------------------------|---------------------------------------|--|
| Storage Precautionary Statements | Specific Hygiene Measures             | Wash hand thoroughly after handling.   |
|                                  | Conditions for Safe Storage           | <p>The storage facility should be designed with fire-proof construction and beams should use a non-combustible material.</p> <p>The roof of a storage facility should be made of a non-combustible material and use metals or other lightweight non-combustible materials. No ceiling should be installed.</p> <p>The storage floor should be protected from water penetration, or should have water-proof construction.</p> <p>The storage floor should have penetration-proof construction against dangerous goods and be inclined adequately. A proper sump should be provided to catch any spills.</p> <p>The storage facility should be provided with necessary lighting, lighting equipment, and ventilator to store and handle dangerous goods.</p> <p>Refer to "Section 10 - STABILITY AND REACTIVITY".</p> <p>Keep away from heat, sparks, open flames and hot surfaces. No smoking.</p> <p>Have containers keep away from direct sunlight and heat.</p> <p>Store in a well-ventilated and cool place keeping container tightly closed.</p> <p>Store locked up.</p> |
|                                  | Material Used in Packaging/Containers | Use containers prescribed in the "Fire Service Law (Japan)" and the "UN Transport Regulations".  |

## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

|                               |                          |   |
|-------------------------------|--------------------------|---|
| Engineering Controls          |                          | <p>Use explosion-proof electrical, ventilating and lighting equipment.</p> <p>Good general ventilation should be sufficient to control airborne levels.</p> |
| Personal Protective Equipment | Respiratory Protection   | Use personal respiratory equipment as required.   |
|                               | Hand Protection          | Wear protective gloves.   |
|                               | Eye Protection           | Wear eye protection.  |
|                               |                          | Protection glasses (ordinary glasses, ordinary glasses with side shields, and goggles).   |
|                               | Skin and Body Protection | <p>Use personal protective clothing and face protection as required.</p> <p>Wear face protection.</p>   |

## Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

|            |                |        |
|------------|----------------|--------|
| Appearance | Physical State | liquid |
|            | Form           | liquid |

|  |             |                          |
|--|-------------|--------------------------|
|  | Colour      | red                      |
| Odour                                    |             | characteristic           |
| Odour threshold                          |             | No data available        |
| pH                                       |             | No data available        |
| Melting Point/Freezing Point             |             | No data available        |
| Initial Boiling Point and Boiling Ranges |             | No data available        |
| Flash Point                              |             | 24°C (Tag Closed Cup)    |
| Evaporation Rate                         |             | No data available        |
| Flammability (solid, gas)                |             | No data available        |
| Flammability or Explosive Limits         | Lower Limit | No data available        |
|  | Upper Limit | No data available        |
| Vapour Pressure                          |             | No data available        |
| Vapour Density                           |             | No data available        |
| Specific Gravity (Density)               |             | No data available        |
| Partition Coefficient : n-Octanol/Water  |             | No data available        |
| Auto-Ignition Temperature                |             | No data available        |
| Decomposition Temperature                |             | No data available        |
| Viscosity                                |             | No data available        |
| Kinematic viscosity                      |             | No data available        |
| Section 10 - STABILITY AND REACTIVITY    |             |                          |
| Reactivity                               |             | No data available        |
| Chemical stability                       |             | No data available        |
| Possibility of Hazardous Reaction        |             | No data available        |
| Conditions to Avoid                      |             | No data available        |
| Incompatible Substances or Mixtures      |             | No data available        |
| Hazardous Decomposition Products         |             | No data available        |
| Section 11 - TOXICOLOGICAL INFORMATION   |             |                          |
| Acute Toxicity                           |             | No information available |
| Skin Corrosion/Irritation                |             | No data available        |
| Serious eye damage/eye irritation        |             | No data available        |
| Respiratory or Skin Sensitization        |             | No data available        |
| Germ Cell Mutagenicity                   |             | No data available        |
| Carcinogenicity                          |             | No data available        |
| Reproductive Toxicity                    |             | No data available        |

|   |                   |
|---|-------------------|
| Specific target organ<br>toxicity (single exposure) | No data available |
|---|-------------------|

|  |                   |
|--|-------------------|
| Specific target organ<br>toxicity (repeated<br>exposure) | No data available |
|--|-------------------|

|                   |                   |
|-------------------|-------------------|
| Aspiration Hazard | No data available |
|-------------------|-------------------|

## Section 12 - ECOLOGICAL INFORMATION

|   |                   |
|---|-------------------|
| Hazardous to the aquatic<br>environment (acute) | No data available |
|---|-------------------|

|   |                   |
|---|-------------------|
| Hazardous to the aquatic<br>environment (long-term) | No data available |
|---|-------------------|

|                                 |                   |
|---------------------------------|-------------------|
| Hazardous to the ozone<br>layer | No data available |
|---------------------------------|-------------------|

## Section 13 - DISPOSAL CONSIDERATIONS

|                |   |
|----------------|---|
| Residual Waste | Disposal should be in accordance with applicable regulations and standards by the respective local governments. |
|----------------|---|

Commission a waste disposal company, or a local public body who are licensed by local or regional government, to dispose of the material.

When commissioning the disposal to a disposal company, notify the danger and toxicity thoroughly to the company.

Do not release waste liquid containing the product and used water for cleansing into rivers, etc., or do not discharge the concerned wastes intact for reclamation.

|   |  |
|---|--|
| Contaminated Container<br>and Packaging | Recycle containers after cleansing, or carry out the disposal under the related laws and regulations and the standards of the local governments. |
|---|--|

In case of disposal of empty containers, remove the content thoroughly.

## Section 14 - TRANSPORT INFORMATION

|                           |                                  |                                   |
|---------------------------|----------------------------------|-----------------------------------|
| International Regulations | Regulatory<br>Information by Sea | Conform to the provisions of IMO. |
|---------------------------|----------------------------------|-----------------------------------|

|                         |                        |
|-------------------------|------------------------|
| UN No.                  | 1263                   |
| Proper Shipping<br>Name | PAINT RELATED MATERIAL |
| Class                   | 3                      |
| Packing Group           | III                    |
| Marine Pollutant        | Not applicable         |

|                                 |  |   |
|---------------------------------|--|---|
|                                 | Transport in bulk according to MARPOL 73/78,Annex II ,and the IBC code | Not applicable  |
| Regulations in Japan            | Regulatory Information by Air  | Conform to the provisions of ICAO/IATA.                 |
|                                 | UN No.   | 1263  |
|                                 | Proper Shipping Name   | PAINT RELATED MATERIAL                                  |
|                                 | Class  | 3   |
|                                 | Packing Group  | III   |
|                                 | Regulatory Information by Road or Rail                                 | Not applicable  |
|                                 | Regulatory Information by Sea  | Conform to the provisions of the Ship Safety Law.       |
|                                 | UN No.   | 1263  |
|                                 | Proper Shipping Name.  | PAINT RELATED MATERIAL                                  |
|                                 | Class  | 3   |
|                                 | Packing Group  | III   |
|                                 | Marine Pollutant   | Not applicable  |
|                                 | Transport in bulk according to MARPOL 73/78,Annex II ,and the IBC code | Not applicable  |
|                                 | Regulatory Information by Air  | Conform to the provisions of the Civil Aeronautics Law. |
| Emergency Response Guide Number | UN No.   | 1263  |
|                                 | Proper Shipping Name.  | PAINT RELATED MATERIAL                                  |
|                                 | Class  | 3   |
|                                 | Packing Group  | III   |
|                                 |  | 128   |

#### Section 15 - REGULATORY INFORMATION

Regulatory information with regard to this product in your country or in your region should be examined by your own responsibility.

#### Section 16 - OTHER INFORMATION

Information Contact

Other Property

No information available

This information is furnished without warranty express or implied.

This information is believed to be accurate to the best knowledge of PENTEL Co., Ltd. but not assumes legal responsibility for use of or reliance upon this information.

## Safety Data Sheet (SDS)

Preparation Date 2015/09/28

Revision Date 2017/09/01

## Section 1 - CHEMICALS AND COMPANY IDENTIFICATION

|  |  |
|--|--|
| Chemical Identifier                    | OPF8-C   |
| Product Code                           | OPF8C00003   |
| Company Name                           | PENTEL CO., LTD.   |
| Address                                | 7-2,KOAMICHO,NIHONBASHI,CHUO-KU,TOKYO                        |
| Company Contact                        | QUALITY ASSURANCE DEPARTMENT I                               |
| Phone Number                           | 03-5695-7210   |
| Fax Number                             | 03-5645-8204   |
| Mail Address                           | hinpo@pentel.co.jp   |
| Australian Co.                         | PENTEL AUSTRALIA PTY LTD                                     |
| Address                                | Unit 4, 12 Mars Road, Lane Cove West NSW 2066                |
| Company Contact                        | Customer Service   |
| Mail Address                           | <a href="mailto:sales@pentel.com.au">sales@pentel.com.au</a> |
| Emergency Phone Number                 | 02 9425 4800   |
| Recommended Use and Restriction on Use | ink  |
|  | MMP20-C, MSP20-C, MWP30-C, MMPINK-C                          |

## Section 2 - HAZARDS IDENTIFICATION

## GHS Classification

|                         |   |
|-------------------------|---|
| Physicochemical Hazards | Flammable liquids Category 3  |
| Health Hazards          | Serious eye damage/eye irritation Category 2B<br>Carcinogenicity Category 2<br>Specific target organ toxicity (single exposure)   |
| Environmental Hazards   | Hazardous to the aquatic environment (acute) Category 2<br>Hazardous to the aquatic environment (long-term) Category 2<br>Other hazards than mentioned above are Not applicable or Classification not possible. |

## GHS Label Elements

## Symbols



|                   |  |
|-------------------|--|
| Signal Word       | Warning  |
| Hazard Statements | H226 Flammable liquid and vapour<br>H320 Causes eye irritation |

|                          |   |
|--------------------------|---|
|                          | H335 May cause respiratory irritation<br>H336 May cause drowsiness and dizziness<br>H351 Suspected of causing cancer<br>H411 Toxic to aquatic life with long lasting effects  |
| Precautionary Statements |   |
| Prevention               | Do not handle until all safety precautions have been read and understood.(P202)   |
| Precautionary Statements | Keep away from heat, sparks, open flames and hot surfaces. No smoking.(P210)<br>Keep container tightly closed.(P233)<br>Avoid breathing gas.(P261)<br>Avoid breathing mist, vapours and spray.(P261)<br>Avoid breathing dust and fume.(P261)<br>Wash eye thoroughly after handling.(P264)<br>Wash hand thoroughly after handling.(P264)<br>Use only outdoors or in a well-ventilated area.(P271)  |
| Response                 | Wear protective gloves, eye protection and face protection.(P280)   |
| Precautionary Statements | IF ON SKIN: Wash with plenty of soap and water.(P302+P352)<br><br>If skin irritation or rash occurs, get medical advice and attention.(P333+P313)<br>IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.(P304+P340)<br><br>Get medical advice and attention if you feel unwell.(P314)<br>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.(P305+P351+P338)<br><br>If eye irritation persists: Get medical advice and attention.(P337+P313) |
| Storage                  |   |
| Precautionary Statements | Store in a well-ventilated place keeping container tightly closed.(P403+P233)<br><br>Store locked up.(P405)   |
| Disposal                 |   |
| Precautionary Statements | Dispose of contents and container in accordance with local, regional and national regulations (to be specified).(P501)  |

## Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Distinction of Substance or

Mixture

Mixture

| Chemical Name or Generic Name | Concentration or Its Ranges | Formula | ENCS No./ISHL No. |          | CAS RN |
|-------------------------------|-----------------------------|---------|-------------------|----------|--------|
|                               |                             |         | ENCS No.          | ISHL No. |        |

|   |        |       |                                  |          |            |
|---|--------|-------|----------------------------------|----------|------------|
| Propyleneglycol monomethylether acetate | 56.2%  |       | (2)-3144                         | Existing | 108-65-6   |
| Ethylcyclohexane                        | 13%    | C8H16 | (3)-2231                         | Existing | 1678-91-7  |
| C.I.Pigment Blue 15                     | 2.7%   |       | (5)-3299<br>(5)-3300<br>(5)-5216 | Existing | 147-14-8   |
| Titanium dioxide                        | 12.08% | TiO2  | (1)-558<br>(5)-5225              | Existing | 13463-67-7 |
| Nitrocellulose                          | 4.31%  |       | (8)-176                          | Existing | 9004-70-0  |

Impurities and/or  
Stabilizing Additives which  
Contribute to the  
Classification

No information available

#### Section 4 - FIRST AID MEASURES

Inhalation

Remove person to fresh air and keep comfortable for breathing.

Get medical advice and attention if you feel unwell.

Skin Contact

Wash with plenty of soap and water.

If skin irritation or rash occurs, get medical advice and attention.

Get medical advice and attention if you feel unwell.

Eye Contact

Rinse cautiously with water for several minutes.

When the ocular stimulation lasts, Seek medical treatment and advice.

Ingestion

Rinse mouth. Do NOT induce vomiting.

Get medical advice and attention if you feel unwell.

#### Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media

Dry chemicals, CO2, water spray or regular foam.

Unsuitable Extinguishing  
Media

Straight streams.

Protection of Fire Fighter

In fire fighting, wear respiratory protection and chemical protective clothing.

#### Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions,  
Protective Equipment and  
Emergency Procedures

Wear appropriate personal protective equipment (Refer to "Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION") and avoid inhalation or contact with eyes and skin.

Environmental Precautions

Do not release into the environment.

Pay attention not to cause the influence on the environment by discharging into rivers.

|  |   |
|--|---|
| Methods and Equipment for Containment and Cleaning up    | This product is water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.   |
| Prevention Measures for Secondary Accidents              | <p>Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.</p> <p>Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Vacuum or sweep up material and place in a disposal container.</p> <p>Remove from water surface by skimming or with suitable absorbents. Do not use dispersants.</p> <p>Allow material to solidify, and scrape up. After removal, flush contaminated area thoroughly with water.</p> <p>Removes all ignition sources promptly. (Prohibition of smoking, sparks, and flames in the surrounding area).</p> <p>Prevent flowing into drain, sewage, basement, and closed area.</p> <p>Remove thoroughly since the smooth and slippery surface will be formed on the floor.</p> |
| Section 7 - HANDLING AND STORAGE                         |   |
| Handling   | <p>Technical Measures Provide ventilation system and use necessary personal protective equipment as described in "Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION".</p> <p>Precautions for Safe Handling Do not handle until all safety precautions have been read and understood.</p> <p>Prohibit use of heat, sparks, and fire in the surrounding area.</p> <p>Wash hand thoroughly after handling.</p> <p>Avoid contact with eyes.</p> <p>Use exhaust ventilation.</p> <p>Avoid breathing dust and fume.</p> <p>Avoid breathing gas.</p> <p>Avoid breathing mist, vapours and spray.</p> <p>Handle at a well-ventilated place.</p> <p>Protect from high temperature and direct sunlight.</p>   |
| Prevents Handling of Incompatible Substances or Mixtures | Refer to "Section 10 - STABILITY AND REACTIVITY".   |

|                                  |                                       |  |
|----------------------------------|---------------------------------------|--|
| Storage Precautionary Statements | Specific Hygiene Measures             | Wash hand thoroughly after handling.   |
|                                  | Conditions for Safe Storage           | <p>The storage facility should be designed with fire-proof construction and beams should use a non-combustible material.</p> <p>The roof of a storage facility should be made of a non-combustible material and use metals or other lightweight non-combustible materials. No ceiling should be installed.</p> <p>The storage floor should be protected from water penetration, or should have water-proof construction.</p> <p>The storage floor should have penetration-proof construction against dangerous goods and be inclined adequately. A proper sump should be provided to catch any spills.</p> <p>The storage facility should be provided with necessary lighting, lighting equipment, and ventilator to store and handle dangerous goods.</p> <p>Refer to "Section 10 - STABILITY AND REACTIVITY".</p> <p>Keep away from heat, sparks, open flames and hot surfaces. No smoking.</p> <p>Have containers keep away from direct sunlight and heat.</p> <p>Store in a well-ventilated and cool place keeping container tightly closed.</p> <p>Store locked up.</p> |
|                                  | Material Used in Packaging/Containers | Use containers prescribed in the "Fire Service Law (Japan)" and the "UN Transport Regulations".  |

## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

|                               |                          |   |
|-------------------------------|--------------------------|---|
| Engineering Controls          |                          | Use explosion-proof electrical, ventilating and lighting equipment.                     |
|                               |                          | Good general ventilation should be sufficient to control airborne levels.               |
| Personal Protective Equipment | Respiratory Protection   | Use personal respiratory equipment as required.   |
|                               | Hand Protection          | Wear protective gloves.   |
|                               | Eye Protection           | Wear eye protection.  |
|                               | Skin and Body Protection | Protection glasses (ordinary glasses, ordinary glasses with side shields, and goggles). |
|                               |                          | Wear face protection.   |
|                               |                          | Use personal protective clothing and face protection as required.                       |

## Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

|  |                |                       |
|--|----------------|-----------------------|
| Appearance                               | Physical State | liquid                |
|  | Form           | liquid                |
|  | Colour         | blue                  |
| Odour                                    |                | characteristic        |
| Odour threshold                          |                | No data available     |
| pH                                       |                | No data available     |
| Melting Point/Freezing Point             |                | No data available     |
| Initial Boiling Point and Boiling Ranges |                | No data available     |
| Flash Point                              |                | 24°C (Tag Closed Cup) |
| Evaporation Rate                         |                | No data available     |
| Flammability (solid, gas)                |                | No data available     |
| Flammability or Explosive Limits         | Lower Limit    | No data available     |
|  | Upper Limit    | No data available     |
| Vapour Pressure                          |                | No data available     |
| Vapour Density                           |                | No data available     |
| Specific Gravity (Density)               |                | No data available     |
| Partition Coefficient : n-Octanol/Water  |                | No data available     |
| Auto-Ignition Temperature                |                | No data available     |
| Decomposition Temperature                |                | No data available     |
| Viscosity                                |                | No data available     |
| Kinematic viscosity                      |                | No data available     |

#### Section 10 - STABILITY AND REACTIVITY

|                                     |                   |
|-------------------------------------|-------------------|
| Reactivity                          | No data available |
| Chemical stability                  | No data available |
| Possibility of Hazardous Reaction   | No data available |
| Conditions to Avoid                 | No data available |
| Incompatible Substances or Mixtures | No data available |
| Hazardous Decomposition Products    | No data available |

#### Section 11 - TOXICOLOGICAL INFORMATION

|                                   |                          |
|-----------------------------------|--------------------------|
| Acute Toxicity                    | No information available |
| Skin Corrosion/Irritation         | No data available        |
| Serious eye damage/eye irritation | No data available        |
| Respiratory or Skin Sensitization | No data available        |

|  |                   |
|--|-------------------|
| Germ Cell Mutagenicity                           | No data available |
| Carcinogenicity                                  | No data available |
| Reproductive Toxicity                            | No data available |
| Specific target organ toxicity (single exposure) | No data available |

|  |                   |
|--|-------------------|
| Specific target organ toxicity (repeated exposure) | No data available |
| Aspiration Hazard                                  | No data available |

## Section 12 - ECOLOGICAL INFORMATION

|  |                   |
|--|-------------------|
| Hazardous to the aquatic environment (acute) | No data available |
|--|-------------------|

|  |                   |
|--|-------------------|
| Hazardous to the aquatic environment (long-term) | No data available |
|--|-------------------|

|                              |                   |
|------------------------------|-------------------|
| Hazardous to the ozone layer | No data available |
|------------------------------|-------------------|

## Section 13 - DISPOSAL CONSIDERATIONS

|                                      |  |
|--------------------------------------|--|
| Residual Waste                       | <p>Disposal should be in accordance with applicable regulations and standards by the respective local governments.</p> <p>Commission a waste disposal company, or a local public body who are licensed by local or regional government, to dispose of the material.</p> <p>When commissioning the disposal to a disposal company, notify the danger and toxicity thoroughly to the company.</p> <p>Do not release waste liquid containing the product and used water for cleansing into rivers, etc., or do not discharge the concerned wastes intact for reclamation.</p> |
| Contaminated Container and Packaging | <p>Recycle containers after cleansing, or carry out the disposal under the related laws and regulations and the standards of the local governments.</p> <p>In case of disposal of empty containers, remove the content thoroughly.</p>   |

## Section 14 - TRANSPORT INFORMATION

|                           |                               |                                   |
|---------------------------|-------------------------------|-----------------------------------|
| International Regulations | Regulatory Information by Sea | Conform to the provisions of IMO. |
|                           | UN No.                        | 1263                              |
|                           | Proper Shipping Name          | PAINT RELATED MATERIAL            |
|                           | Class                         | 3                                 |

|                                 |   |   |
|---------------------------------|---|---|
|                                 | Packing Group   | III   |
|                                 | Marine Pollutant  | Not applicable  |
|                                 | Transport in bulk according to MARPOL 73/78, Annex II ,and the IBC code | Not applicable  |
| Regulations in Japan            | Regulatory Information by Air   | Conform to the provisions of ICAO/IATA.                 |
|                                 | UN No.  | 1263  |
|                                 | Proper Shipping Name  | PAINT RELATED MATERIAL                                  |
|                                 | Class   | 3   |
|                                 | Packing Group   | III   |
|                                 | Regulatory Information by Road or Rail                                  | Not applicable  |
|                                 | Regulatory Information by Sea   | Conform to the provisions of the Ship Safety Law.       |
|                                 | UN No.  | 1263  |
|                                 | Proper Shipping Name.   | PAINT RELATED MATERIAL                                  |
|                                 | Class   | 3   |
|                                 | Packing Group   | III   |
|                                 | Marine Pollutant  | Not applicable  |
|                                 | Transport in bulk according to MARPOL 73/78, Annex II ,and the IBC code | Not applicable  |
|                                 | Regulatory Information by Air   | Conform to the provisions of the Civil Aeronautics Law. |
|                                 | UN No.  | 1263  |
| Emergency Response Guide Number | Proper Shipping Name.   | PAINT RELATED MATERIAL                                  |
|                                 | Class   | 3   |
|                                 | Packing Group   | III   |
|                                 |   | 128   |

#### Section 15 - REGULATORY INFORMATION

Regulatory information with regard to this product in your country or in your region should be examined by your own responsibility.

#### Section 16 - OTHER INFORMATION

|                     |  |
|---------------------|--|
| Information Contact | No information available   |
| Other Property      | This information is furnished without warranty express or implied. |

This information is believed to be accurate to the best knowledge of PENTEL Co., Ltd. but not assumes leagal responsibility for use of or reliance upon this information.

## Safety Data Sheet (SDS)

Preparation Date 2015/09/28

Revision Date 2017/09/01

## Section 1 - CHEMICALS AND COMPANY IDENTIFICATION

|  |  |
|--|--|
| Chemical Identifier                    | OPF8-D   |
| Product Code                           | OPF8D00003   |
| Company Name                           | PENTEL CO., LTD.   |
| Address                                | 7-2,KOAMICHO,NIHONBASHI,CHUO-KU,TOKYO                        |
| Company Contact                        | QUALITY ASSURANCE DEPARTMENT I                               |
| Phone Number                           | 03-5695-7210   |
| Fax Number                             | 03-5645-8204   |
| Mail Address                           | hinpo@pentel.co.jp   |
| Australian Co.                         | PENTEL AUSTRALIA PTY LTD                                     |
| Address                                | Unit 4, 12 Mars Road, Lane Cove West NSW 2066                |
| Company Contact                        | Customer Service   |
| Mail Address                           | <a href="mailto:sales@pentel.com.au">sales@pentel.com.au</a> |
| Emergency Phone Number                 | 02 9425 4800   |
| Recommended Use and Restriction on Use | ink  |
|  | MMP20-D、MSP20-D、MWP30-D、MMPINK-D                             |

## Section 2 - HAZARDS IDENTIFICATION

## GHS Classification

|                         |   |
|-------------------------|---|
| Physicochemical Hazards | Flammable liquids Category 3  |
| Health Hazards          | Serious eye damage/eye irritation Category 2B<br>Carcinogenicity Category 2<br>Specific target organ toxicity (single exposure) |
| Environmental Hazards   | Hazardous to the aquatic environment (acute) Category 2<br>Hazardous to the aquatic environment (long-term) Category 2          |
|                         | Other hazards than mentioned above are Not applicable or Classification not possible.   |

## GHS Label Elements

## Symbols



|                   |  |
|-------------------|--|
| Signal Word       | Warning  |
| Hazard Statements | H226 Flammable liquid and vapour<br>H320 Causes eye irritation |

|                          |   |
|--------------------------|---|
|                          | H335 May cause respiratory irritation<br>H336 May cause drowsiness and dizziness<br>H351 Suspected of causing cancer<br>H411 Toxic to aquatic life with long lasting effects  |
| Precautionary Statements |   |
| Prevention               | Do not handle until all safety precautions have been read and understood.(P202)   |
| Precautionary Statements | Keep away from heat, sparks, open flames and hot surfaces. No smoking.(P210)<br>Keep container tightly closed.(P233)<br>Avoid breathing gas.(P261)<br>Avoid breathing mist, vapours and spray.(P261)<br>Avoid breathing dust and fume.(P261)<br>Wash eye thoroughly after handling.(P264)<br>Wash hand thoroughly after handling.(P264)<br>Use only outdoors or in a well-ventilated area.(P271)<br>Wear protective gloves, eye protection and face protection.(P280) |
| Response                 | IF ON SKIN: Wash with plenty of soap and water.(P302+P352)  |
| Precautionary Statements | If skin irritation or rash occurs, get medical advice and attention.(P333+P313)<br>IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.(P304+P340)   |
|                          | Get medical advice and attention if you feel unwell.(P314)<br>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.(P305+P351+P338)  |
| Storage                  | If eye irritation persists: Get medical advice and attention.(P337+P313)  |
| Precautionary Statements | Store in a well-ventilated place keeping container tightly closed.(P403+P233)   |
|                          | Store locked up.(P405)  |
| Disposal                 | Dispose of contents and container in accordance with local, regional and national regulations (to be specified).(P501)  |
| Precautionary Statements |   |

## Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Distinction of Substance or  
Mixture

Mixture

| Chemical Name or Generic Name | Concentration or Its Ranges | Formula | ENCS No./ISHL No. |          | CAS RN |
|-------------------------------|-----------------------------|---------|-------------------|----------|--------|
|                               |                             |         | ENCS No.          | ISHL No. |        |

|   |        |       |                                  |          |            |
|---|--------|-------|----------------------------------|----------|------------|
| Propyleneglycol monomethylether acetate | 58.83% |       | (2)-3144                         | Existing | 108-65-6   |
| Ethylcyclohexane                        | 14.9%  | C8H16 | (3)-2231                         | Existing | 1678-91-7  |
| C.I.Pigment Blue 15                     | 1.15%  |       | (5)-3299<br>(5)-3300<br>(5)-5216 | Existing | 147-14-8   |
| Titanium dioxide                        | 11.03% | TiO2  | (1)-558<br>(5)-5225              | Existing | 13463-67-7 |
| Nitrocellulose                          | 3.9%   |       | (8)-176                          | Existing | 9004-70-0  |

Impurities and/or  
Stabilizing Additives which  
Contribute to the  
Classification

No information available

#### Section 4 - FIRST AID MEASURES

Inhalation

Remove person to fresh air and keep comfortable for breathing.  
Get medical advice and attention if you feel unwell.

Skin Contact

Wash with plenty of soap and water.  
If skin irritation or rash occurs, get medical advice and attention.  
Get medical advice and attention if you feel unwell.

Eye Contact

Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do.  
Continue rinsing.  
When the ocular stimulation lasts, Seek medical treatment and advice.

Ingestion

Rinse mouth. Do NOT induce vomiting.  
Get medical advice and attention if you feel unwell.

#### Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media

Dry chemicals, CO2, water spray or regular foam.

Unsuitable Extinguishing  
Media

Straight streams.

Protection of Fire Fighter

In fire fighting, wear respiratory protection and chemical protective clothing.

#### Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions,  
Protective Equipment and  
Emergency Procedures

Wear appropriate personal protective equipment (Refer to "Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION") and avoid inhalation or contact with eyes and skin.

Environmental Precautions

Do not release into the environment.

|   |  |
|---|--|
| Methods and Equipment for Containment and Cleaning up | <p>Pay attention not to cause the influence on the environment by discharging into rivers.</p> <p>This product is water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.</p>  |
|   | <p>Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.</p>  |
|   | <p>Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container.</p>   |
|   | <p>Vacuum or sweep up material and place in a disposal container.</p>  |
|   | <p>Remove from water surface by skimming or with suitable absorbents. Do not use dispersants.</p>  |
| Prevention Measures for Secondary Accidents           | <p>Allow material to solidify, and scrape up.</p> <p>After removal, flush contaminated area thoroughly with water.</p> <p>Removes all ignition sources promptly. (Prohibition of smoking, sparks, and flames in the surrounding area).</p> <p>Prevent flowing into drain, sewage, basement, and closed area.</p> <p>Remove thoroughly since the smooth and slippery surface will be formed on the floor.</p> |

## Section 7 - HANDLING AND STORAGE

|          |                               |   |
|----------|-------------------------------|---|
| Handling | Technical Measures            | <p>Provide ventilation system and use necessary personal protective equipment as described in "Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION".</p>  |
|          | Precautions for Safe Handling | <p>Do not handle until all safety precautions have been read and understood.</p> <p>Prohibit use of heat, sparks, and fire in the surrounding area.</p> <p>Wash hand thoroughly after handling.</p> <p>Avoid contact with eyes.</p> <p>Use exhaust ventilation.</p> <p>Avoid breathing dust and fume.</p> <p>Avoid breathing gas.</p> <p>Avoid breathing mist, vapours and spray.</p> <p>Handle at a well-ventilated place.</p> <p>Protect from high temperature and direct sunlight.</p> |

|                                  |  |  |
|----------------------------------|--|--|
| Storage Precautionary Statements | Prevents Handling of Incompatible Substances or Mixtures | Refer to "Section 10 - STABILITY AND REACTIVITY".  |
|                                  | Specific Hygiene Measures                                | Wash hand thoroughly after handling.   |
|                                  | Conditions for Safe Storage                              | <p>The storage facility should be designed with fire-proof construction and beams should use a non-combustible material.</p> <p>The roof of a storage facility should be made of a non-combustible material and use metals or other lightweight non-combustible materials. No ceiling should be installed.</p> <p>The storage floor should be protected from water penetration, or should have water-proof construction.</p> <p>The storage floor should have penetration-proof construction against dangerous goods and be inclined adequately. A proper sump should be provided to catch any spills.</p> <p>The storage facility should be provided with necessary lighting, lighting equipment, and ventilator to store and handle dangerous goods.</p> <p>Refer to "Section 10 - STABILITY AND REACTIVITY".</p> <p>Keep away from heat, sparks, open flames and hot surfaces. No smoking.</p> <p>Have containers keep away from direct sunlight and heat.</p> <p>Store in a well-ventilated and cool place keeping container tightly closed.</p> <p>Store locked up.</p> |
|                                  | Material Used in Packaging/Containers                    | Use containers prescribed in the "Fire Service Law (Japan)" and the "UN Transport Regulations".  |

## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

|                               |                          |   |
|-------------------------------|--------------------------|---|
| Personal Protective Equipment | Engineering Controls     | <p>Use explosion-proof electrical, ventilating and lighting equipment.</p> <p>Good general ventilation should be sufficient to control airborne levels.</p> |
|                               | Respiratory Protection   | Use personal respiratory equipment as required.   |
|                               | Hand Protection          | Wear protective gloves.   |
|                               | Eye Protection           | <p>Wear eye protection.</p> <p>Protection glasses (ordinary glasses, ordinary glasses with side shields, and goggles).</p>                                  |
|                               | Skin and Body Protection | Wear face protection.   |

Use personal protective clothing and face protection

## Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

|  |                |                       |
|--|----------------|-----------------------|
| Appearance                               | Physical State | liquid                |
|  | Form           | liquid                |
|  | Colour         | green                 |
| Odour                                    |                | characteristic        |
| Odour threshold                          |                | No data available     |
| pH                                       |                | No data available     |
| Melting Point/Freezing Point             |                | No data available     |
| Initial Boiling Point and Boiling Ranges |                | No data available     |
| Flash Point                              |                | 24°C (Tag Closed Cup) |
| Evaporation Rate                         |                | No data available     |
| Flammability (solid, gas)                |                | No data available     |
| Flammability or Explosive Limits         | Lower Limit    | No data available     |
|  | Upper Limit    | No data available     |
| Vapour Pressure                          |                | No data available     |
| Vapour Density                           |                | No data available     |
| Specific Gravity (Density)               |                | No data available     |
| Partition Coefficient : n-Octanol/Water  |                | No data available     |
| Auto-Ignition Temperature                |                | No data available     |
| Decomposition Temperature                |                | No data available     |
| Viscosity                                |                | No data available     |
| Kinematic viscosity                      |                | No data available     |

## Section 10 - STABILITY AND REACTIVITY

|                                     |                   |
|-------------------------------------|-------------------|
| Reactivity                          | No data available |
| Chemical stability                  | No data available |
| Possibility of Hazardous Reaction   | No data available |
| Conditions to Avoid                 | No data available |
| Incompatible Substances or Mixtures | No data available |
| Hazardous Decomposition Products    | No data available |

## Section 11 - TOXICOLOGICAL INFORMATION

|                           |                          |
|---------------------------|--------------------------|
| Acute Toxicity            | No information available |
| Skin Corrosion/Irritation | No data available        |

|  |                   |
|--|-------------------|
| Serious eye damage/eye irritation                  | No data available |
| Respiratory or Skin Sensitization                  | No data available |
| Germ Cell Mutagenicity                             | No data available |
| Carcinogenicity                                    | No data available |
| Reproductive Toxicity                              | No data available |
| Specific target organ toxicity (single exposure)   | No data available |
| Specific target organ toxicity (repeated exposure) | No data available |
| Aspiration Hazard                                  | No data available |

## Section 12 - ECOLOGICAL INFORMATION

|  |                   |
|--|-------------------|
| Hazardous to the aquatic environment (acute)     | No data available |
| Hazardous to the aquatic environment (long-term) | No data available |
| Hazardous to the ozone layer                     | No data available |

## Section 13 - DISPOSAL CONSIDERATIONS

|                                      |  |
|--------------------------------------|--|
| Residual Waste                       | <p>Disposal should be in accordance with applicable regulations and standards by the respective local governments.</p> <p>Commission a waste disposal company, or a local public body who are licensed by local or regional government, to dispose of the material.</p> <p>When commissioning the disposal to a disposal company, notify the danger and toxicity thoroughly to the company.</p> <p>Do not release waste liquid containing the product and used water for cleansing into rivers, etc., or do not discharge the concerned wastes intact for reclamation.</p> |
| Contaminated Container and Packaging | <p>Recycle containers after cleansing, or carry out the disposal under the related laws and regulations and the standards of the local governments.</p> <p>In case of disposal of empty containers, remove the content thoroughly.</p>   |

## Section 14 - TRANSPORT INFORMATION

|                                 |  |   |
|---------------------------------|--|---|
| International Regulations       | Regulatory Information by Sea  | Conform to the provisions of IMO.                       |
|                                 | UN No.   | 1263  |
|                                 | Proper Shipping Name   | PAINT RELATED MATERIAL                                  |
|                                 | Class  | 3   |
|                                 | Packing Group  | III   |
|                                 | Marine Pollutant   | Not applicable  |
|                                 | Transport in bulk according to MARPOL 73/78,Annex II ,and the IBC code | Not applicable  |
|                                 | Regulatory Information by Air  | Conform to the provisions of ICAO/IATA.                 |
|                                 | UN No.   | 1263  |
|                                 | Proper Shipping Name   | PAINT RELATED MATERIAL                                  |
| Regulations in Japan            | Class  | 3   |
|                                 | Packing Group  | III   |
|                                 | Regulatory Information by Road or Rail                                 | Not applicable  |
|                                 | Regulatory Information by Sea  | Conform to the provisions of the Ship Safety Law.       |
|                                 | UN No.   | 1263  |
|                                 | Proper Shipping Name.  | PAINT RELATED MATERIAL                                  |
|                                 | Class  | 3   |
|                                 | Packing Group  | III   |
|                                 | Marine Pollutant   | Not applicable  |
|                                 | Transport in bulk according to MARPOL 73/78,Annex II ,and the IBC code | Not applicable  |
| Emergency Response Guide Number | Regulatory Information by Air  | Conform to the provisions of the Civil Aeronautics Law. |
|                                 | UN No.   | 1263  |
|                                 | Proper Shipping Name.  | PAINT RELATED MATERIAL                                  |
|                                 | Class  | 3   |
|                                 | Packing Group  | III   |
|                                 |  | 128   |

Regulatory information with regard to this product in your country or in your region should be examined by your own responsibility.

#### Section 16 - OTHER INFORMATION

Information Contact

No information available

Other Property

This information is furnished without warranty express or implied.

This information is believed to be accurate to the best knowledge of PENTEL Co., Ltd. but not assumes leagal responsibility for use of or reliance upon this information.

## Safety Data Sheet (SDS)

Preparation Date 2015/09/28

Revision Date 2017/09/01

## Section 1 - CHEMICALS AND COMPANY IDENTIFICATION

|  |  |
|--|--|
| Chemical Identifier                    | OPF8-E   |
| Product Code                           | OPF8E00003   |
| Company Name                           | PENTEL CO., LTD.   |
| Address                                | 7-2,KOAMICHO,NIHONBASHI,CHUO-KU,TOKYO                        |
| Company Contact                        | QUALITY ASSURANCE DEPARTMENT I                               |
| Phone Number                           | 03-5695-7210   |
| Fax Number                             | 03-5645-8204   |
| Mail Address                           | hinpo@pentel.co.jp   |
| Australian Co.                         | PENTEL AUSTRALIA PTY LTD                                     |
| Address                                | Unit 4, 12 Mars Road, Lane Cove West NSW 2066                |
| Company Contact                        | Customer Service   |
| Mail Address                           | <a href="mailto:sales@pentel.com.au">sales@pentel.com.au</a> |
| Emergency Phone Number                 | 02 9425 4800   |
| Recommended Use and Restriction on Use | ink  |
|  | MMP20-E  |

## Section 2 - HAZARDS IDENTIFICATION

## GHS Classification

|                         |   |
|-------------------------|---|
| Physicochemical Hazards | Flammable liquids Category 3  |
| Health Hazards          | Serious eye damage/eye irritation Category 2B<br>Carcinogenicity Category 2<br>Specific target organ toxicity (single exposure)                           |
| Environmental Hazards   | Hazardous to the aquatic environment (acute) Category 2<br>Hazardous to the aquatic environment (long-term)<br>Other hazards than mentioned above are Not |

## GHS Label Elements

## Symbols



|                   |  |
|-------------------|--|
| Signal Word       | Warning  |
| Hazard Statements | H226 Flammable liquid and vapour<br>H320 Causes eye irritation<br>H335 May cause respiratory irritation<br>H336 May cause drowsiness and dizziness |

|                          |   |
|--------------------------|---|
|                          | H351 Suspected of causing cancer<br>H411 Toxic to aquatic life with long lasting effects  |
| Precautionary Statements |   |
| Prevention               | Do not handle until all safety precautions have been read and understood.(P202)   |
| Precautionary Statements | Keep away from heat, sparks, open flames and hot<br>Keep container tightly closed.(P233)<br>Avoid breathing gas.(P261)<br>Avoid breathing mist, vapours and spray.(P261)<br>Avoid breathing dust and fume.(P261)<br>Wash eye thoroughly after handling.(P264)<br>Wash hand thoroughly after handling.(P264)<br>Use only outdoors or in a well-ventilated area.(P271)<br>Wear protective gloves, eye protection and face |
| Response                 | IF ON SKIN: Wash with plenty of soap and water.(P302+P352)  |
| Precautionary Statements | If skin irritation or rash occurs, get medical advice<br>IF INHALED: Remove to fresh air and keep at rest in<br>Get medical advice and attention if you feel<br>IF IN EYES: Rinse cautiously with water for several<br>If eye irritation persists: Get medical advice and   |
| Storage                  | Store in a well-ventilated place keeping container tightly closed.(P403+P233)   |
| Precautionary Statements | Store locked up.(P405)  |
| Disposal                 | Dispose of contents and container in accordance with local, regional and national regulations (to be specified).(P501)  |
| Precautionary Statements |   |

## Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Distinction of Substance or  
Mixture

Mixture

| Chemical Name or Generic Name           | Concentration or Its Ranges | Formula | ENCS No./ISHL No.                |          | CAS RN     |
|---|-----------------------------|---------|----------------------------------|----------|------------|
|   |                             |         | ENCS No.                         | ISHL No. |            |
| Propyleneglycol monomethylether acetate | 60%                         |         | (2)-3144                         | Existing | 108-65-6   |
| Ethylcyclohexane                        | 14%                         | C8H16   | (3)-2231                         | Existing | 1678-91-7  |
| C.I.Pigment Blue 15                     | 0.25%                       |         | (5)-3299<br>(5)-3300<br>(5)-5216 | Existing | 147-14-8   |
| Titanium dioxide                        | 5.25%                       | TiO2    | (1)-558<br>(5)-5225              | Existing | 13463-67-7 |
| Nitrocellulose                          | 3.6%                        |         | (8)-176                          | Existing | 9004-70-0  |

Impurities and/or  
Stabilizing Additives which  
Contribute to the  
Classification

No information available

#### Section 4 - FIRST AID MEASURES

Inhalation

Remove person to fresh air and keep comfortable for  
Get medical advice and attention if you feel unwell.

Skin Contact

Wash with plenty of soap and water.  
If skin irritation or rash occurs, get medical advice  
Get medical advice and attention if you feel unwell.

Eye Contact

Rinse cautiously with water for several minutes.  
When the ocular stimulation lasts, Seek medical

Ingestion

Rinse mouth. Do NOT induce vomiting.  
Get medical advice and attention if you feel unwell.

#### Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media

Dry chemicals, CO2, water spray or regular foam.

Unsuitable Extinguishing  
Media

Straight streams.

Protection of Fire Fighter

In fire fighting, wear respiratory protection and  
chemical protective clothing.

#### Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions,  
Protective Equipment and  
Emergency Procedures

Wear appropriate personal protective equipment  
(Refer to "Section 8 - EXPOSURE CONTROLS /  
PERSONAL PROTECTION") and avoid inhalation or  
contact with eyes and skin.

Environmental Precautions

Do not release into the environment.

Methods and Equipment  
for Containment and  
Cleaning up

Pay attention not to cause the influence on the  
This product is water pollutant and should be  
Absorb or cover with dry earth, sand or other non-  
combustible material and transfer to containers.

Prevention Measures for  
Secondary Accidents

Absorb spill with inert material (e.g., dry sand or  
Vacuum or sweep up material and place in a disposal  
Remove from water surface by skimming or with  
After removal, flush contaminated area thoroughly  
Allow material to solidify, and scrape up.  
Removes all ignition sources promptly. (Prohibition  
of smoking, sparks, and flames in the surrounding  
Prevent flowing into drain, sewage, basement, and  
Do not get water inside containers.

#### Section 7 - HANDLING AND STORAGE

Handling

Technical Measures

Provide ventilation system and use necessary  
personal protective equipment as described in

|                                  |  |   |
|----------------------------------|--|---|
| Storage Precautionary Statements | Precautions for Safe Handling                            | Do not handle until all safety precautions have been read and understood.<br>Prohibit use of heat, sparks, and fire in the<br>Wash hand thoroughly after handling.<br>Avoid contact with eyes.<br>Use exhaust ventilation.<br>Avoid breathing dust and fume.<br>Avoid breathing gas.<br>Avoid breathing mist, vapours and spray.<br>Handle at a well-ventilated place.<br>Protect from high temperature and direct sunlight.  |
|                                  | Prevents Handling of Incompatible Substances or Mixtures | Refer to "Section 10 - STABILITY AND REACTIVITY".   |
|                                  | Specific Hygiene Measures                                | Wash hand thoroughly after handling.  |
|                                  | Conditions for Safe Storage                              | The storage facility should be designed with fire-proof construction and beams should use a non-<br>The roof of a storage facility should be made of a<br>The storage floor should be protected from water<br>The storage floor should have penetration-proof<br>The storage facility should be provided with<br>Refer to "Section 10 - STABILITY AND REACTIVITY".<br>Keep away from heat, sparks, open flames and hot<br>Have containers keep away from direct sunlight and<br>Store in a well-ventilated and cool place keeping<br>Store locked up. |
|                                  | Material Used in Packaging/Containers                    | Use containers prescribed in the "Fire Service Law (Japan)" and the "UN Transport Regulations".   |

## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

|                               |                          |  |
|-------------------------------|--------------------------|--|
| Engineering Controls          |                          | Use explosion-proof electrical, ventilating and<br>Good general ventilation should be sufficient to<br>Use personal respiratory equipment as required. |
| Personal Protective Equipment | Respiratory Protection   |  |
|                               | Hand Protection          | Wear protective gloves.  |
|                               | Eye Protection           | Wear eye protection.<br>Protection glasses (ordinary glasses, ordinary glasses   |
|                               | Skin and Body Protection | Wear face protection.<br><br>Use personal protective clothing and face protection  |

## Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

|                 |                |                   |
|-----------------|----------------|-------------------|
| Appearance      | Physical State | liquid            |
|                 | Form           | liquid            |
|                 | Colour         | brown             |
| Odour           |                | characteristic    |
| Odour threshold |                | No data available |

|  |             |                       |
|--|-------------|-----------------------|
| pH                                       |             | No data available     |
| Melting Point/Freezing Point             |             | No data available     |
| Initial Boiling Point and Boiling Ranges |             | No data available     |
| Flash Point                              |             | 24°C (Tag Closed Cup) |
| Evaporation Rate                         |             | No data available     |
| Flammability (solid, gas)                |             | No data available     |
| Flammability or Explosive Limits         | Lower Limit | No data available     |
|  | Upper Limit | No data available     |
| Vapour Pressure                          |             | No data available     |
| Vapour Density                           |             | No data available     |
| Specific Gravity (Density)               |             | No data available     |
| Partition Coefficient : n-Octanol/Water  |             | No data available     |
| Auto-Ignition Temperature                |             | No data available     |
| Decomposition Temperature                |             | No data available     |
| Viscosity                                |             | No data available     |
| Kinematic viscosity                      |             | No data available     |

## Section 10 - STABILITY AND REACTIVITY

|                                     |                   |
|-------------------------------------|-------------------|
| Reactivity                          | No data available |
| Chemical stability                  | No data available |
| Possibility of Hazardous Reaction   | No data available |
| Conditions to Avoid                 | No data available |
| Incompatible Substances or Mixtures | No data available |
| Hazardous Decomposition Products    | No data available |

## Section 11 - TOXICOLOGICAL INFORMATION

|                                   |                          |
|-----------------------------------|--------------------------|
| Acute Toxicity                    | No information available |
| Skin Corrosion/Irritation         | No data available        |
| Serious eye damage/eye irritation | No data available        |
| Respiratory or Skin Sensitization | No data available        |
| Germ Cell Mutagenicity            | No data available        |
| Carcinogenicity                   | No data available        |
| Reproductive Toxicity             | No data available        |

|   |                   |
|---|-------------------|
| Specific target organ<br>toxicity (single exposure) | No data available |
|---|-------------------|

|  |                   |
|--|-------------------|
| Specific target organ<br>toxicity (repeated<br>exposure) | No data available |
|--|-------------------|

|                   |                   |
|-------------------|-------------------|
| Aspiration Hazard | No data available |
|-------------------|-------------------|

#### Section 12 - ECOLOGICAL INFORMATION

|   |                   |
|---|-------------------|
| Hazardous to the aquatic<br>environment (acute) | No data available |
|---|-------------------|

|   |                   |
|---|-------------------|
| Hazardous to the aquatic<br>environment (long-term) | No data available |
|---|-------------------|

|                                 |                   |
|---------------------------------|-------------------|
| Hazardous to the ozone<br>layer | No data available |
|---------------------------------|-------------------|

#### Section 13 - DISPOSAL CONSIDERATIONS

|   |   |
|---|---|
| Residual Waste                          | Disposal should be in accordance with applicable<br>Commission a waste disposal company, or a local<br>When commissioning the disposal to a disposal<br>Do not release waste liquid containing the product    |
| Contaminated Container<br>and Packaging | Recycle containers after cleansing, or carry out the<br>disposal under the related laws and regulations and<br>the standards of the local governments.<br>In case of disposal of empty containers, remove the |

#### Section 14 - TRANSPORT INFORMATION

|                           |   |   |
|---------------------------|---|---|
| International Regulations | Regulatory<br>Information by Sea  | Conform to the provisions of IMO.       |
|                           | UN No.  | 1263                                    |
|                           | Proper Shipping<br>Name   | PAINT RELATED MATERIAL                  |
|                           | Class   | 3                                       |
|                           | Packing Group   | III                                     |
|                           | Marine Pollutant  | Not applicable                          |
|                           | Transport in bulk<br>according to MARPOL<br>73/78,Annex II ,and<br>the IBC code | Not applicable                          |
|                           | Regulatory<br>Information by Air  | Conform to the provisions of ICAO/IATA. |
|                           | UN No.  | 1263                                    |
|                           | Proper Shipping<br>Name   | PAINT RELATED MATERIAL                  |
|                           | Class   | 3                                       |
|                           | Packing Group   | III                                     |

|                                 |   |   |
|---------------------------------|---|---|
| Regulations in Japan            | Regulatory Information by Road or Rail                                  | Not applicable  |
|                                 | Regulatory Information by Sea   | Conform to the provisions of the Ship Safety Law.       |
|                                 | UN No.  | 1263  |
|                                 | Proper Shipping Name.   | PAINT RELATED MATERIAL                                  |
|                                 | Class   | 3   |
|                                 | Packing Group   | III   |
|                                 | Marine Pollutant  | Not applicable  |
|                                 | Transport in bulk according to MARPOL 73/78, Annex II ,and the IBC code | Not applicable  |
|                                 | Regulatory Information by Air   | Conform to the provisions of the Civil Aeronautics Law. |
|                                 | UN No.  | 1263  |
|                                 | Proper Shipping Name.   | PAINT RELATED MATERIAL                                  |
|                                 | Class   | 3   |
|                                 | Packing Group   | III   |
| Emergency Response Guide Number |   | 128   |

#### Section 15 - REGULATORY INFORMATION

Regulatory information with regard to this product in your country or in your region should be examined

#### Section 16 - OTHER INFORMATION

|                     |  |
|---------------------|--|
| Information Contact | No information available   |
| Other Property      | This information is furnished without warranty<br>This information is believed to be accurate to the |

## Safety Data Sheet (SDS)

Preparation Date 2015/09/28

Revision Date 2017/09/01

## Section 1 - CHEMICALS AND COMPANY IDENTIFICATION

|  |  |
|--|--|
| Chemical Identifier                    | OPF8-F   |
| Product Code                           | OPF8F00002   |
| Company Name                           | PENTEL CO., LTD.   |
| Address                                | 7-2,KOAMICHO,NIHONBASHI,CHUO-KU,TOKYO                        |
| Company Contact                        | QUALITY ASSURANCE DEPARTMENT I                               |
| Phone Number                           | 03-5695-7210   |
| Fax Number                             | 03-5645-8204   |
| Mail Address                           | hinpo@pentel.co.jp   |
| Australian Co.                         | PENTEL AUSTRALIA PTY LTD                                     |
| Address                                | Unit 4, 12 Mars Road, Lane Cove West NSW 2066                |
| Company Contact                        | Customer Service   |
| Mail Address                           | <a href="mailto:sales@pentel.com.au">sales@pentel.com.au</a> |
| Emergency Phone Number                 | 02 9425 4800   |
| Recommended Use and Restriction on Use | ink  |
|  | MMP20-F  |

## Section 2 - HAZARDS IDENTIFICATION

## GHS Classification

|                         |   |
|-------------------------|---|
| Physicochemical Hazards | Flammable liquids Category 3  |
| Health Hazards          | Serious eye damage/eye irritation Category 2B<br>Carcinogenicity Category 2<br>Specific target organ toxicity (single exposure) Category 3(narcotic effect,respiratory tract irritation)                        |
| Environmental Hazards   | Hazardous to the aquatic environment (acute) Category 2<br>Hazardous to the aquatic environment (long-term) Category 2<br>Other hazards than mentioned above are Not applicable or Classification not possible. |

## GHS Label Elements

## Symbols



## Signal Word

Warning

|                          |  |
|--------------------------|--|
| Hazard Statements        | <p>H226 Flammable liquid and vapour</p> <p>H320 Causes eye irritation</p> <p>H335 May cause respiratory irritation</p> <p>H336 May cause drowsiness and dizziness</p> <p>H351 Suspected of causing cancer</p> <p>H411 Toxic to aquatic life with long lasting effects</p>  |
| Precautionary Statements |  |
| Prevention               | Do not handle until all safety precautions have been read and understood.(P202)  |
| Precautionary Statements | <p>Keep away from heat, sparks, open flames and hot surfaces. No smoking.(P210)</p> <p>Keep container tightly closed.(P233)</p> <p>Avoid breathing gas.(P261)</p> <p>Avoid breathing mist, vapours and spray.(P261)</p> <p>Avoid breathing dust and fume.(P261)</p> <p>Wash eye thoroughly after handling.(P264)</p> <p>Wash hand thoroughly after handling.(P264)</p> <p>Use only outdoors or in a well-ventilated area.(P271)</p>  |
| Response                 | Wear protective gloves, eye protection and face protection.(P280)  |
| Precautionary Statements | <p>IF ON SKIN: Wash with plenty of soap and water.(P302+P352)</p> <p>If skin irritation or rash occurs, get medical advice and attention.(P333+P313)</p> <p>IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.(P304+P340)</p> <p>Get medical advice and attention if you feel unwell.(P314)</p> <p>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.(P305+P351+P338)</p> <p>If eye irritation persists: Get medical advice and attention.(P337+P313)</p> |
| Storage                  | Store in a well-ventilated place keeping container tightly closed.(P403+P233)  |
| Precautionary Statements | Store locked up.(P405)   |
| Disposal                 | Dispose of contents and container in accordance with local, regional and national regulations (to be specified).(P501)   |
| Precautionary Statements |  |

## Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Distinction of Substance or  
Mixture

Mixture

| Chemical Name or Generic Name           | Concentration or Its Ranges | Formula                        | ENCS No./ISHL No.   |          | CAS RN     |
|---|-----------------------------|--------------------------------|---------------------|----------|------------|
|   |                             |                                | ENCS No.            | ISHL No. |            |
| Propyleneglycol monomethylether acetate | 57.7%                       |                                | (2)-3144            | Existing | 108-65-6   |
| Ethylcyclohexane                        | 13.46%                      | C <sub>8</sub> H <sub>16</sub> | (3)-2231            | Existing | 1678-91-7  |
| Titanium dioxide                        | 13.7%                       | TiO <sub>2</sub>               | (1)-558<br>(5)-5225 | Existing | 13463-67-7 |
| Nitrocellulose                          | 3.99%                       |                                | (8)-176             | Existing | 9004-70-0  |

Impurities and/or  
Stabilizing Additives which  
Contribute to the  
Classification

No information available

#### Section 4 - FIRST AID MEASURES

Inhalation

Remove person to fresh air and keep comfortable for breathing.

Get medical advice and attention if you feel unwell.

Skin Contact

Wash with plenty of soap and water.

If skin irritation or rash occurs, get medical advice and attention.

Get medical advice and attention if you feel unwell.

Eye Contact

Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

When the ocular stimulation lasts, Seek medical treatment and advice.

Ingestion

Rinse mouth. Do NOT induce vomiting.

Get medical advice and attention if you feel unwell.

#### Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media

Dry chemicals, CO<sub>2</sub>, water spray or regular foam.

Unsuitable Extinguishing  
Media

Straight streams.

Protection of Fire Fighter

In fire fighting, wear respiratory protection and chemical protective clothing.

#### Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions,  
Protective Equipment and  
Emergency Procedures

Wear appropriate personal protective equipment (Refer to "Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION") and avoid inhalation or contact with eyes and skin.

Environmental Precautions

Do not release into the environment.

|   |   |
|---|---|
| Methods and Equipment<br>for Containment and<br>Cleaning up | Pay attention not to cause the influence on the environment by discharging into rivers.<br>This product is water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.  |
|   | Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.  |
|   | Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container.   |
|   | Vacuum or sweep up material and place in a disposal container.  |
|   | Remove from water surface by skimming or with suitable absorbents. Do not use dispersants.  |
| Prevention Measures for<br>Secondary Accidents              | Allow material to solidify, and scrape up.<br>After removal, flush contaminated area thoroughly with water.<br>Removes all ignition sources promptly. (Prohibition of smoking, sparks, and flames in the surrounding area).<br>Prevent flowing into drain, sewage, basement, and closed area.<br>Remove thoroughly since the smooth and slippery surface will be formed on the floor. |

## Section 7 - HANDLING AND STORAGE

|          |                               |  |
|----------|-------------------------------|--|
| Handling | Technical Measures            | Provide ventilation system and use necessary personal protective equipment as described in "Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION".  |
|          | Precautions for Safe Handling | Do not handle until all safety precautions have been read and understood.<br>Prohibit use of heat, sparks, and fire in the surrounding area.<br>Wash hand thoroughly after handling.<br>Avoid contact with eyes.<br>Use exhaust ventilation.<br>Avoid breathing dust and fume.<br>Avoid breathing gas.<br>Avoid breathing mist, vapours and spray.<br>Handle at a well-ventilated place.<br>Protect from high temperature and direct sunlight. |

|                                  |  |  |
|----------------------------------|--|--|
| Storage Precautionary Statements | Prevents Handling of Incompatible Substances or Mixtures | Refer to "Section 10 - STABILITY AND REACTIVITY".  |
|                                  | Specific Hygiene Measures                                | Wash hand thoroughly after handling.   |
|                                  | Conditions for Safe Storage                              | <p>The storage facility should be designed with fire-proof construction and beams should use a non-combustible material.</p> <p>The roof of a storage facility should be made of a non-combustible material and use metals or other lightweight non-combustible materials. No ceiling should be installed.</p> <p>The storage floor should be protected from water penetration, or should have water-proof construction.</p> <p>The storage floor should have penetration-proof construction against dangerous goods and be inclined adequately. A proper sump should be provided to catch any spills.</p> <p>The storage facility should be provided with necessary lighting, lighting equipment, and ventilator to store and handle dangerous goods.</p> <p>Refer to "Section 10 - STABILITY AND REACTIVITY".</p> <p>Keep away from heat, sparks, open flames and hot surfaces. No smoking.</p> <p>Have containers keep away from direct sunlight and heat.</p> <p>Store in a well-ventilated and cool place keeping container tightly closed.</p> <p>Store locked up.</p> |
|                                  | Material Used in Packaging/Containers                    | Use containers prescribed in the "Fire Service Law (Japan)" and the "UN Transport Regulations".  |

## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

|                               |                          |   |
|-------------------------------|--------------------------|---|
| Personal Protective Equipment | Engineering Controls     | <p>Use explosion-proof electrical, ventilating and lighting equipment.</p> <p>Good general ventilation should be sufficient to control airborne levels.</p> |
|                               | Respiratory Protection   | Use personal respiratory equipment as required.   |
|                               | Hand Protection          | Wear protective gloves.   |
|                               | Eye Protection           | Wear eye protection.  |
|                               |                          | Protection glasses (ordinary glasses, ordinary glasses with side shields, and goggles).   |
|                               | Skin and Body Protection | Wear face protection.   |

Use personal protective clothing and face protection as required.

## Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

|  |                |                       |
|--|----------------|-----------------------|
| Appearance                               | Physical State | liquid                |
|  | Form           | liquid                |
|  | Colour         | orange                |
| Odour                                    |                | characteristic        |
| Odour threshold                          |                | No data available     |
| pH                                       |                | No data available     |
| Melting Point/Freezing Point             |                | No data available     |
| Initial Boiling Point and Boiling Ranges |                | No data available     |
| Flash Point                              |                | 24°C (Tag Closed Cup) |
| Evaporation Rate                         |                | No data available     |
| Flammability (solid, gas)                |                | No data available     |
| Flammability or Explosive Limits         | Lower Limit    | No data available     |
|  | Upper Limit    | No data available     |
| Vapour Pressure                          |                | No data available     |
| Vapour Density                           |                | No data available     |
| Specific Gravity (Density)               |                | No data available     |
| Partition Coefficient : n-Octanol/Water  |                | No data available     |
| Auto-Ignition Temperature                |                | No data available     |
| Decomposition Temperature                |                | No data available     |
| Viscosity                                |                | No data available     |
| Kinematic viscosity                      |                | No data available     |

## Section 10 - STABILITY AND REACTIVITY

|                                     |                   |
|-------------------------------------|-------------------|
| Reactivity                          | No data available |
| Chemical stability                  | No data available |
| Possibility of Hazardous Reaction   | No data available |
| Conditions to Avoid                 | No data available |
| Incompatible Substances or Mixtures | No data available |
| Hazardous Decomposition Products    | No data available |

## Section 11 - TOXICOLOGICAL INFORMATION

|                           |                          |
|---------------------------|--------------------------|
| Acute Toxicity            | No information available |
| Skin Corrosion/Irritation | No data available        |

|  |                   |
|--|-------------------|
| Serious eye damage/eye irritation                  | No data available |
| Respiratory or Skin Sensitization                  | No data available |
| Germ Cell Mutagenicity                             | No data available |
| Carcinogenicity                                    | No data available |
| Reproductive Toxicity                              | No data available |
| Specific target organ toxicity (single exposure)   | No data available |
| Specific target organ toxicity (repeated exposure) | No data available |
| Aspiration Hazard                                  | No data available |

## Section 12 - ECOLOGICAL INFORMATION

|  |                   |
|--|-------------------|
| Hazardous to the aquatic environment (acute)     | No data available |
| Hazardous to the aquatic environment (long-term) | No data available |
| Hazardous to the ozone layer                     | No data available |

## Section 13 - DISPOSAL CONSIDERATIONS

|                                      |  |
|--------------------------------------|--|
| Residual Waste                       | <p>Disposal should be in accordance with applicable regulations and standards by the respective local governments.</p> <p>Commission a waste disposal company, or a local public body who are licensed by local or regional government, to dispose of the material.</p> <p>When commissioning the disposal to a disposal company, notify the danger and toxicity thoroughly to the company.</p> <p>Do not release waste liquid containing the product and used water for cleansing into rivers, etc., or do not discharge the concerned wastes intact for reclamation.</p> |
| Contaminated Container and Packaging | <p>Recycle containers after cleansing, or carry out the disposal under the related laws and regulations and the standards of the local governments.</p> <p>In case of disposal of empty containers, remove the content thoroughly.</p>   |

## Section 14 - TRANSPORT INFORMATION

|                           |                               |                                   |
|---------------------------|-------------------------------|-----------------------------------|
| International Regulations | Regulatory Information by Sea | Conform to the provisions of IMO. |
|---------------------------|-------------------------------|-----------------------------------|

|                                 |  |   |
|---------------------------------|--|---|
| Regulations in Japan            | UN No.   | 1263  |
|                                 | Proper Shipping Name   | PAINT RELATED MATERIAL                                  |
|                                 | Class  | 3   |
|                                 | Packing Group  | III   |
|                                 | Marine Pollutant   | Not applicable  |
|                                 | Transport in bulk according to MARPOL 73/78,Annex II ,and the IBC code | Not applicable  |
|                                 | Regulatory Information by Air  | Conform to the provisions of ICAO/IATA.                 |
|                                 | UN No.   | 1263  |
|                                 | Proper Shipping Name   | PAINT RELATED MATERIAL                                  |
|                                 | Class  | 3   |
| Regulations in Japan            | Packing Group  | III   |
|                                 | Regulatory Information by Road or Rail                                 | Not applicable  |
|                                 | Regulatory Information by Sea  | Conform to the provisions of the Ship Safety Law.       |
|                                 | UN No.   | 1263  |
|                                 | Proper Shipping Name.  | PAINT RELATED MATERIAL                                  |
|                                 | Class  | 3   |
|                                 | Packing Group  | III   |
|                                 | Marine Pollutant   | Not applicable  |
|                                 | Transport in bulk according to MARPOL 73/78,Annex II ,and the IBC code | Not applicable  |
|                                 | Regulatory Information by Air  | Conform to the provisions of the Civil Aeronautics Law. |
| Emergency Response Guide Number | UN No.   | 1263  |
|                                 | Proper Shipping Name.  | PAINT RELATED MATERIAL                                  |
|                                 | Class  | 3   |
|                                 | Packing Group  | III   |
|                                 |  | 128   |

## Section 15 - REGULATORY INFORMATION

Regulatory information with regard to this product in your country or in your region should be examined by your own responsibility.

Section 16 - OTHER INFORMATION

Information Contact

No information available

Other Property

This information is furnished without warranty  
express or implied.

This information is believed to be accurate to the  
best knowledge of PENTEL Co., Ltd. but not assumes  
leagal responsibility for use of or reliance upon this  
information.

## Safety Data Sheet (SDS)

Preparation Date 2015/09/29

Revision Date 2017/09/04

## Section 1 - CHEMICALS AND COMPANY IDENTIFICATION

|  |  |
|--|--|
| Chemical Identifier                    | OPF8-G   |
| Product Code                           | OPF8G00002   |
| Company Name                           | PENTEL CO., LTD.   |
| Address                                | 7-2,KOAMICHO,NIHONBASHI,CHUO-KU,TOKYO                        |
| Company Contact                        | QUALITY ASSURANCE DEPARTMENT I                               |
| Phone Number                           | 03-5695-7210   |
| Fax Number                             | 03-5645-8204   |
| Mail Address                           | hinpo@pentel.co.jp   |
| Australian Co.                         | PENTEL AUSTRALIA PTY LTD                                     |
| Address                                | Unit 4, 12 Mars Road, Lane Cove West NSW 2066                |
| Company Contact                        | Customer Service   |
| Mail Address                           | <a href="mailto:sales@pentel.com.au">sales@pentel.com.au</a> |
| Emergency Phone Number                 | 02 9425 4800   |
| Recommended Use and Restriction on Use | ink  |
|  | MMP20-G、MSP20-G、MWP30-G、MMPINK-G                             |

## Section 2 - HAZARDS IDENTIFICATION

## GHS Classification

|                         |   |
|-------------------------|---|
| Physicochemical Hazards | Flammable liquids Category 3  |
| Health Hazards          | Serious eye damage/eye irritation Category 2B<br>Carcinogenicity Category 2<br>Specific target organ toxicity (single exposure) Category 3(narcotic effect,respiratory tract irritation)                        |
| Environmental Hazards   | Hazardous to the aquatic environment (acute) Category 2<br>Hazardous to the aquatic environment (long-term) Category 2<br>Other hazards than mentioned above are Not applicable or Classification not possible. |

## GHS Label Elements

## Symbols



## Signal Word

Warning

|  |  |
|--|--|
| Hazard Statements  | H226 Flammable liquid and vapour<br>H320 Causes eye irritation<br>H335 May cause respiratory irritation<br>H336 May cause drowsiness and dizziness<br>H351 Suspected of causing cancer<br>H411 Toxic to aquatic life with long lasting effects   |
| Precautionary<br>Statements<br>Prevention<br>Precautionary<br>Statements | Do not handle until all safety precautions have been read and understood.(P202)<br><br>Keep away from heat, sparks, open flames and hot surfaces. No smoking.(P210)<br>Keep container tightly closed.(P233)<br>Avoid breathing gas.(P261)<br>Avoid breathing mist, vapours and spray.(P261)<br>Avoid breathing dust and fume.(P261)<br>Wash eye thoroughly after handling.(P264)<br>Wash hand thoroughly after handling.(P264)<br>Use only outdoors or in a well-ventilated area.(P271)  |
| Response<br>Precautionary<br>Statements                                  | Wear protective gloves, eye protection and face protection.(P280)<br>IF ON SKIN: Wash with plenty of soap and water.(P302+P352)<br><br>If skin irritation or rash occurs, get medical advice and attention.(P333+P313)<br>IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.(P304+P340)<br><br>Get medical advice and attention if you feel unwell.(P314)<br>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.(P305+P351+P338) |
| Storage<br>Precautionary<br>Statements                                   | If eye irritation persists: Get medical advice and attention.(P337+P313)<br>Store in a well-ventilated place keeping container tightly closed.(P403+P233)  |
| Disposal<br>Precautionary<br>Statements                                  | Store locked up.(P405)<br>Dispose of contents and container in accordance with local, regional and national regulations (to be specified).(P501)   |

Distinction of Substance or  
Mixture

## Mixture

| Chemical Name or Generic Name           | Concentration or Its Ranges | Formula                        | ENCS No./ISHL No.   |          | CAS RN     |
|---|-----------------------------|--------------------------------|---------------------|----------|------------|
|   |                             |                                | ENCS No.            | ISHL No. |            |
| Propyleneglycol monomethylether acetate | 63.6%                       |                                | (2)-3144            | Existing | 108-65-6   |
| Ethylcyclohexane                        | 12.4%                       | C <sub>8</sub> H <sub>16</sub> | (3)-2231            | Existing | 1678-91-7  |
| Titanium dioxide                        | 9.38%                       | TiO <sub>2</sub>               | (1)-558<br>(5)-5225 | Existing | 13463-67-7 |
| Nitrocellulose                          | 3.27%                       |                                | (8)-176             | Existing | 9004-70-0  |

Impurities and/or  
Stabilizing Additives which  
Contribute to the  
Classification

No information available

## Section 4 - FIRST AID MEASURES

## Inhalation

Remove person to fresh air and keep comfortable for breathing.  
Get medical advice and attention if you feel unwell.

## Skin Contact

Wash with plenty of soap and water.  
If skin irritation or rash occurs, get medical advice and attention.  
Get medical advice and attention if you feel unwell.

## Eye Contact

Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do.  
Continue rinsing.  
When the ocular stimulation lasts, Seek medical treatment and advice.  
Call a doctor if you feel unwell.  
Rinse mouth. Do NOT induce vomiting.  
Get medical advice and attention if you feel unwell.

## Ingestion

## Section 5 - FIRE FIGHTING MEASURES

## Extinguishing Media

Dry chemicals, CO<sub>2</sub>, water spray or regular foam.

Unsuitable Extinguishing  
Media

Straight streams.

## Protection of Fire Fighter

In fire fighting, wear respiratory protection and chemical protective clothing.

## Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions,  
Protective Equipment and  
Emergency Procedures

Wear appropriate personal protective equipment (Refer to "Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION") and avoid inhalation or contact with eyes and skin.

## Environmental Precautions

Do not release into the environment.

Pay attention not to cause the influence on the environment by discharging into rivers.

This product is water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.

Methods and Equipment  
for Containment and  
Cleaning up

Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container.

Vacuum or sweep up material and place in a disposal container.

Remove from water surface by skimming or with suitable absorbents. Do not use dispersants.

Allow material to solidify, and scrape up.

After removal, flush contaminated area thoroughly with water.

Prevention Measures for  
Secondary Accidents

Removes all ignition sources promptly. (Prohibition of smoking, sparks, and flames in the surrounding area).

Prevent flowing into drain, sewage, basement, and closed area.

Remove thoroughly since the smooth and slippery surface will be formed on the floor.

## Section 7 - HANDLING AND STORAGE

## Handling

## Technical Measures

Provide ventilation system and use necessary personal protective equipment as described in "Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION".

Precautions for Safe  
Handling

Do not handle until all safety precautions have been read and understood.

Prohibit use of heat, sparks, and fire in the surrounding area.

Wash hand thoroughly after handling.

Avoid contact with eyes.

Use exhaust ventilation.

Avoid breathing dust and fume.

Avoid breathing gas.

Avoid breathing mist, vapours and spray.

Handle at a well-ventilated place.

Protect from high temperature and direct sunlight.

|                                  |  |  |
|----------------------------------|--|--|
| Storage Precautionary Statements | Prevents Handling of Incompatible Substances or Mixtures | Refer to "Section 10 - STABILITY AND REACTIVITY".  |
|                                  | Specific Hygiene Measures                                | Wash hand thoroughly after handling.   |
|                                  | Conditions for Safe Storage                              | <p>The storage facility should be designed with fire-proof construction and beams should use a non-combustible material.</p> <p>The roof of a storage facility should be made of a non-combustible material and use metals or other lightweight non-combustible materials. No ceiling should be installed.</p> <p>The storage floor should be protected from water penetration, or should have water-proof construction.</p> <p>The storage floor should have penetration-proof construction against dangerous goods and be inclined adequately. A proper sump should be provided to catch any spills.</p> <p>The storage facility should be provided with necessary lighting, lighting equipment, and ventilator to store and handle dangerous goods.</p> <p>Refer to "Section 10 - STABILITY AND REACTIVITY".</p> <p>Keep away from heat, sparks, open flames and hot surfaces. No smoking.</p> <p>Have containers keep away from direct sunlight and heat.</p> <p>Store in a well-ventilated and cool place keeping container tightly closed.</p> <p>Store locked up.</p> |
|                                  | Material Used in Packaging/Containers                    | Use containers prescribed in the "Fire Service Law (Japan)" and the "UN Transport Regulations".  |

## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

|                               |                          |   |
|-------------------------------|--------------------------|---|
| Personal Protective Equipment | Engineering Controls     | <p>Use explosion-proof electrical, ventilating and lighting equipment.</p> <p>Good general ventilation should be sufficient to control airborne levels.</p> |
|                               | Respiratory Protection   | Use personal respiratory equipment as required.   |
|                               | Hand Protection          | Wear protective gloves.   |
|                               | Eye Protection           | <p>Wear eye protection.</p> <p>Protection glasses (ordinary glasses, ordinary glasses with side shields, and goggles).</p>                                  |
|                               | Skin and Body Protection | Wear face protection.   |

Use personal protective clothing and face protection as required.

## Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

|  |                |                       |
|--|----------------|-----------------------|
| Appearance                               | Physical State | liquid                |
|  | Form           | liquid                |
|  | Colour         | yellow                |
| Odour                                    |                | characteristic        |
| Odour threshold                          |                | No data available     |
| pH                                       |                | No data available     |
| Melting Point/Freezing Point             |                | No data available     |
| Initial Boiling Point and Boiling Ranges |                | No data available     |
| Flash Point                              |                | 24°C (Tag Closed Cup) |
| Evaporation Rate                         |                | No data available     |
| Flammability (solid, gas)                |                | No data available     |
| Flammability or Explosive Limits         | Lower Limit    | No data available     |
|  | Upper Limit    | No data available     |
| Vapour Pressure                          |                | No data available     |
| Vapour Density                           |                | No data available     |
| Specific Gravity (Density)               |                | No data available     |
| Partition Coefficient : n-Octanol/Water  |                | No data available     |
| Auto-Ignition Temperature                |                | No data available     |
| Decomposition Temperature                |                | No data available     |
| Viscosity                                |                | No data available     |
| Kinematic viscosity                      |                | No data available     |

## Section 10 - STABILITY AND REACTIVITY

|                                     |                   |
|-------------------------------------|-------------------|
| Reactivity                          | No data available |
| Chemical stability                  | No data available |
| Possibility of Hazardous Reaction   | No data available |
| Conditions to Avoid                 | No data available |
| Incompatible Substances or Mixtures | No data available |
| Hazardous Decomposition Products    | No data available |

## Section 11 - TOXICOLOGICAL INFORMATION

|                           |                          |
|---------------------------|--------------------------|
| Acute Toxicity            | No information available |
| Skin Corrosion/Irritation | No data available        |

|  |                   |
|--|-------------------|
| Serious eye damage/eye irritation                  | No data available |
| Respiratory or Skin Sensitization                  | No data available |
| Germ Cell Mutagenicity                             | No data available |
| Carcinogenicity                                    | No data available |
| Reproductive Toxicity                              | No data available |
| Specific target organ toxicity (single exposure)   | No data available |
| Specific target organ toxicity (repeated exposure) | No data available |
| Aspiration Hazard                                  | No data available |

## Section 12 - ECOLOGICAL INFORMATION

|  |                   |
|--|-------------------|
| Hazardous to the aquatic environment (acute)     | No data available |
| Hazardous to the aquatic environment (long-term) | No data available |
| Hazardous to the ozone layer                     | No data available |

## Section 13 - DISPOSAL CONSIDERATIONS

|                                      |  |
|--------------------------------------|--|
| Residual Waste                       | <p>Disposal should be in accordance with applicable regulations and standards by the respective local governments.</p> <p>Commission a waste disposal company, or a local public body who are licensed by local or regional government, to dispose of the material.</p> <p>When commissioning the disposal to a disposal company, notify the danger and toxicity thoroughly to the company.</p> <p>Do not release waste liquid containing the product and used water for cleansing into rivers, etc., or do not discharge the concerned wastes intact for reclamation.</p> |
| Contaminated Container and Packaging | <p>Recycle containers after cleansing, or carry out the disposal under the related laws and regulations and the standards of the local governments.</p> <p>In case of disposal of empty containers, remove the content thoroughly.</p>   |

## Section 14 - TRANSPORT INFORMATION

|                                 |  |   |
|---------------------------------|--|---|
| International Regulations       | Regulatory Information by Sea  | Conform to the provisions of IMO.                       |
|                                 | UN No.   | 1263  |
|                                 | Proper Shipping Name   | PAINT RELATED MATERIAL                                  |
|                                 | Class  | 3   |
|                                 | Packing Group  | III   |
|                                 | Marine Pollutant   | Not applicable  |
|                                 | Transport in bulk according to MARPOL 73/78,Annex II ,and the IBC code | Not applicable  |
|                                 | Regulatory Information by Air  | Conform to the provisions of ICAO/IATA.                 |
|                                 | UN No.   | 1263  |
|                                 | Proper Shipping Name   | PAINT RELATED MATERIAL                                  |
| Regulations in Japan            | Class  | 3   |
|                                 | Packing Group  | III   |
|                                 | Regulatory Information by Road or Rail                                 | Not applicable  |
|                                 | Regulatory Information by Sea  | Conform to the provisions of the Ship Safety Law.       |
|                                 | UN No.   | 1263  |
|                                 | Proper Shipping Name.  | PAINT RELATED MATERIAL                                  |
|                                 | Class  | 3   |
|                                 | Packing Group  | III   |
|                                 | Marine Pollutant   | Not applicable  |
|                                 | Transport in bulk according to MARPOL 73/78,Annex II ,and the IBC code | Not applicable  |
| Emergency Response Guide Number | Regulatory Information by Air  | Conform to the provisions of the Civil Aeronautics Law. |
|                                 | UN No.   | 1263  |
|                                 | Proper Shipping Name.  | PAINT RELATED MATERIAL                                  |
|                                 | Class  | 3   |
|                                 | Packing Group  | III   |
|                                 |  | 128   |

Regulatory information with regard to this product in your country or in your region should be examined by your own responsibility.

#### Section 16 - OTHER INFORMATION

Information Contact

No information available

Other Property

This information is furnished without warranty express or implied.

This information is believed to be accurate to the best knowledge of PENTEL Co., Ltd. but not assumes leagal responsibility for use of or reliance upon this information.

## Safety Data Sheet (SDS)

Preparation Date 2015/09/28

Revision Date 2017/09/04

## Section 1 - CHEMICALS AND COMPANY IDENTIFICATION

|  |  |
|--|--|
| Chemical Identifier                    | OPF8-K   |
| Product Code                           | OPF8K00003   |
| Company Name                           | PENTEL CO., LTD.   |
| Address                                | 7-2,KOAMICHO,NIHONBASHI,CHUO-KU,TOKYO                        |
| Company Contact                        | QUALITY ASSURANCE DEPARTMENT I                               |
| Phone Number                           | 03-5695-7210   |
| Fax Number                             | 03-5645-8204   |
| Mail Address                           | hinpo@pentel.co.jp   |
| Australian Co.                         | PENTEL AUSTRALIA PTY LTD                                     |
| Address                                | Unit 4, 12 Mars Road, Lane Cove West NSW 2066                |
| Company Contact                        | Customer Service   |
| Mail Address                           | <a href="mailto:sales@pentel.com.au">sales@pentel.com.au</a> |
| Emergency Phone Number                 | 02 9425 4800   |
| Recommended Use and Restriction on Use | ink  |
|  | MMP20-K  |

## Section 2 - HAZARDS IDENTIFICATION

## GHS Classification

|                         |   |
|-------------------------|---|
| Physicochemical Hazards | Flammable liquids Category 3  |
| Health Hazards          | Serious eye damage/eye irritation Category 2B<br>Carcinogenicity Category 2<br>Specific target organ toxicity (single exposure) Category 3(narcotic effect,respiratory tract irritation)                        |
| Environmental Hazards   | Hazardous to the aquatic environment (acute) Category 2<br>Hazardous to the aquatic environment (long-term) Category 2<br>Other hazards than mentioned above are Not applicable or Classification not possible. |

## GHS Label Elements

## Symbols



## Signal Word

Warning

|                          |  |
|--------------------------|--|
| Hazard Statements        | <p>H226 Flammable liquid and vapour</p> <p>H320 Causes eye irritation</p> <p>H335 May cause respiratory irritation</p> <p>H336 May cause drowsiness and dizziness</p> <p>H351 Suspected of causing cancer</p> <p>H411 Toxic to aquatic life with long lasting effects</p>  |
| Precautionary Statements |  |
| Prevention               | Do not handle until all safety precautions have been read and understood.(P202)  |
| Precautionary Statements | <p>Keep away from heat, sparks, open flames and hot surfaces. No smoking.(P210)</p> <p>Keep container tightly closed.(P233)</p> <p>Avoid breathing gas.(P261)</p> <p>Avoid breathing mist, vapours and spray.(P261)</p> <p>Avoid breathing dust and fume.(P261)</p> <p>Wash eye thoroughly after handling.(P264)</p> <p>Wash hand thoroughly after handling.(P264)</p> <p>Use only outdoors or in a well-ventilated area.(P271)</p>  |
| Response                 | Wear protective gloves, eye protection and face protection.(P280)  |
| Precautionary Statements | <p>IF ON SKIN: Wash with plenty of soap and water.(P302+P352)</p> <p>If skin irritation or rash occurs, get medical advice and attention.(P333+P313)</p> <p>IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.(P304+P340)</p> <p>Get medical advice and attention if you feel unwell.(P314)</p> <p>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.(P305+P351+P338)</p> <p>If eye irritation persists: Get medical advice and attention.(P337+P313)</p> |
| Storage                  | Store in a well-ventilated place keeping container tightly closed.(P403+P233)  |
| Precautionary Statements | Store locked up.(P405)   |
| Disposal                 | Dispose of contents and container in accordance with local, regional and national regulations (to be specified).(P501)   |
| Precautionary Statements |  |

Distinction of Substance or  
Mixture

## Mixture

| Chemical Name or Generic Name           | Concentration or Its Ranges | Formula                        | ENCS No./ISHL No.                |          | CAS RN     |
|---|-----------------------------|--------------------------------|----------------------------------|----------|------------|
|   |                             |                                | ENCS No.                         | ISHL No. |            |
| Propyleneglycol monomethylether acetate | 56.45%                      |                                | (2)-3144                         | Existing | 108-65-6   |
| Ethylcyclohexane                        | 13%                         | C <sub>8</sub> H <sub>16</sub> | (3)-2231                         | Existing | 1678-91-7  |
| C.I.Pigment Blue 15                     | 0.25%                       |                                | (5)-3299<br>(5)-3300<br>(5)-5216 | Existing | 147-14-8   |
| Titanium dioxide                        | 16.01%                      | TiO <sub>2</sub>               | (1)-558<br>(5)-5225              | Existing | 13463-67-7 |
| Nitrocellulose                          | 3.64%                       |                                | (8)-176                          | Existing | 9004-70-0  |

Impurities and/or  
Stabilizing Additives which  
Contribute to the  
Classification

No information available

## Section 4 - FIRST AID MEASURES

## Inhalation

Remove person to fresh air and keep comfortable for breathing.

Get medical advice and attention if you feel unwell.

## Skin Contact

Wash with plenty of soap and water.

If skin irritation or rash occurs, get medical advice and attention.

Get medical advice and attention if you feel unwell.

## Eye Contact

Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do.

Continue rinsing.

When the ocular stimulation lasts, Seek medical treatment and advice.

## Ingestion

Rinse mouth. Do NOT induce vomiting.

Get medical advice and attention if you feel unwell.

## Section 5 - FIRE FIGHTING MEASURES

## Extinguishing Media

Dry chemicals, CO<sub>2</sub>, water spray or regular foam.

Unsuitable Extinguishing  
Media

Straight streams.

## Protection of Fire Fighter

In fire fighting, wear respiratory protection and chemical protective clothing.

## Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions,  
Protective Equipment and  
Emergency Procedures

Wear appropriate personal protective equipment (Refer to "Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION") and avoid inhalation or contact with eyes and skin.

Environmental Precautions

Do not release into the environment.

Pay attention not to cause the influence on the environment by discharging into rivers.

This product is water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.

Methods and Equipment  
for Containment and  
Cleaning up

Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container.

Vacuum or sweep up material and place in a disposal container.

Remove from water surface by skimming or with suitable absorbents. Do not use dispersants.

Allow material to solidify, and scrape up.

After removal, flush contaminated area thoroughly with water.

Prevention Measures for  
Secondary Accidents

Removes all ignition sources promptly. (Prohibition of smoking, sparks, and flames in the surrounding area).

Prevent flowing into drain, sewage, basement, and closed area.

Remove thoroughly since the smooth and slippery surface will be formed on the floor.

## Section 7 - HANDLING AND STORAGE

Handling

Technical Measures

Provide ventilation system and use necessary personal protective equipment as described in "Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION".

Precautions for Safe  
Handling

Do not handle until all safety precautions have been read and understood.

Prohibit use of heat, sparks, and fire in the surrounding area.

Wash hand thoroughly after handling.

Avoid contact with eyes.

Use exhaust ventilation.

Avoid breathing dust and fume.

Avoid breathing gas.

Avoid breathing mist, vapours and spray.

|                                  |  |  |
|----------------------------------|--|--|
|                                  |  | Handle at a well-ventilated place.<br>Protect from high temperature and direct sunlight.   |
| Storage Precautionary Statements | Prevents Handling of Incompatible Substances or Mixtures | Refer to "Section 10 - STABILITY AND REACTIVITY".  |
|                                  | Specific Hygiene Measures                                | Wash hand thoroughly after handling.   |
|                                  | Conditions for Safe Storage                              | The storage facility should be designed with fire-proof construction and beams should use a non-combustible material.<br>The roof of a storage facility should be made of a non-combustible material and use metals or other lightweight non-combustible materials. No ceiling should be installed.<br>The storage floor should be protected from water penetration, or should have water-proof construction.<br>The storage floor should have penetration-proof construction against dangerous goods and be inclined adequately. A proper sump should be provided to catch any spills.<br>The storage facility should be provided with necessary lighting, lighting equipment, and ventilator to store and handle dangerous goods.<br>Refer to "Section 10 - STABILITY AND REACTIVITY". |
|                                  | Material Used in Packaging/Containers                    | Keep away from heat, sparks, open flames and hot surfaces. No smoking.<br>Have containers keep away from direct sunlight and heat.<br>Store in a well-ventilated and cool place keeping container tightly closed.<br>Store locked up.<br>Use containers prescribed in the "Fire Service Law (Japan)" and the "UN Transport Regulations".   |

## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

|                               |                        |  |
|-------------------------------|------------------------|--|
| Engineering Controls          |                        | Use explosion-proof electrical, ventilating and lighting equipment.<br>Good general ventilation should be sufficient to control airborne levels. |
| Personal Protective Equipment | Respiratory Protection | Use personal respiratory equipment as required.  |
|                               | Hand Protection        | Wear protective gloves.  |
|                               | Eye Protection         | Wear eye protection.   |

### Skin and Body Protection

Protection glasses (ordinary glasses, ordinary glasses with side shields, and goggles).

Wear face protection.

Use personal protective clothing and face protection as required.

## Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

|  |                |                       |
|--|----------------|-----------------------|
| Appearance                               | Physical State | liquid                |
|  | Form           | liquid                |
|  | Colour         | light green           |
| Odour                                    |                | characteristic        |
| Odour threshold                          |                | No data available     |
| pH                                       |                | No data available     |
| Melting Point/Freezing Point             |                | No data available     |
| Initial Boiling Point and Boiling Ranges |                | No data available     |
| Flash Point                              |                | 24°C (Tag Closed Cup) |
| Evaporation Rate                         |                | No data available     |
| Flammability (solid, gas)                |                | No data available     |
| Flammability or Explosive Limits         | Lower Limit    | No data available     |
|  | Upper Limit    | No data available     |
| Vapour Pressure                          |                | No data available     |
| Vapour Density                           |                | No data available     |
| Specific Gravity (Density)               |                | No data available     |
| Partition Coefficient : n-Octanol/Water  |                | No data available     |
| Auto-Ignition Temperature                |                | No data available     |
| Decomposition Temperature                |                | No data available     |
| Viscosity                                |                | No data available     |
| Kinematic viscosity                      |                | No data available     |

## Section 10 - STABILITY AND REACTIVITY

|                                     |                   |
|-------------------------------------|-------------------|
| Reactivity                          | No data available |
| Chemical stability                  | No data available |
| Possibility of Hazardous Reaction   | No data available |
| Conditions to Avoid                 | No data available |
| Incompatible Substances or Mixtures | No data available |
| Hazardous Decomposition Products    | No data available |

**Section 11 - TOXICOLOGICAL INFORMATION**

|  |                          |
|--|--------------------------|
| Acute Toxicity                                     | No information available |
| Skin Corrosion/Irritation                          | No data available        |
| Serious eye damage/eye irritation                  | No data available        |
| Respiratory or Skin Sensitization                  | No data available        |
| Germ Cell Mutagenicity                             | No data available        |
| Carcinogenicity                                    | No data available        |
| Reproductive Toxicity                              | No data available        |
| Specific target organ toxicity (single exposure)   | No data available        |
| Specific target organ toxicity (repeated exposure) | No data available        |
| Aspiration Hazard                                  | No data available        |

**Section 12 - ECOLOGICAL INFORMATION**

|  |                   |
|--|-------------------|
| Hazardous to the aquatic environment (acute)     | No data available |
| Hazardous to the aquatic environment (long-term) | No data available |
| Hazardous to the ozone layer                     | No data available |

**Section 13 - DISPOSAL CONSIDERATIONS**

|                                      |  |
|--------------------------------------|--|
| Residual Waste                       | <p>Disposal should be in accordance with applicable regulations and standards by the respective local governments.</p> <p>Commission a waste disposal company, or a local public body who are licensed by local or regional government, to dispose of the material.</p> <p>When commissioning the disposal to a disposal company, notify the danger and toxicity thoroughly to the company.</p> <p>Do not release waste liquid containing the product and used water for cleansing into rivers, etc., or do not discharge the concerned wastes intact for reclamation.</p> |
| Contaminated Container and Packaging | <p>Recycle containers after cleansing, or carry out the disposal under the related laws and regulations and the standards of the local governments.</p>  |

In case of disposal of empty containers, remove the content thoroughly.

#### Section 14 - TRANSPORT INFORMATION

|                           |  |   |
|---------------------------|--|---|
| International Regulations | Regulatory Information by Sea  | Conform to the provisions of IMO.                       |
|                           | UN No.   | 1263  |
|                           | Proper Shipping Name   | PAINT RELATED MATERIAL                                  |
|                           | Class  | 3   |
|                           | Packing Group  | III   |
|                           | Marine Pollutant   | Not applicable  |
|                           | Transport in bulk according to MARPOL 73/78,Annex II ,and the IBC code | Not applicable  |
|                           | Regulatory Information by Air  | Conform to the provisions of ICAO/IATA.                 |
|                           | UN No.   | 1263  |
|                           | Proper Shipping Name   | PAINT RELATED MATERIAL                                  |
| Regulations in Japan      | Class  | 3   |
|                           | Packing Group  | III   |
|                           | Regulatory Information by Road or Rail                                 | Not applicable  |
|                           | Regulatory Information by Sea  | Conform to the provisions of the Ship Safety Law.       |
|                           | UN No.   | 1263  |
|                           | Proper Shipping Name.  | PAINT RELATED MATERIAL                                  |
|                           | Class  | 3   |
|                           | Packing Group  | III   |
|                           | Marine Pollutant   | Not applicable  |
|                           | Transport in bulk according to MARPOL 73/78,Annex II ,and the IBC code | Not applicable  |
|                           | Regulatory Information by Air  | Conform to the provisions of the Civil Aeronautics Law. |
|                           | UN No.   | 1263  |
|                           | Proper Shipping Name.  | PAINT RELATED MATERIAL                                  |
|                           | Class  | 3   |
|                           | Packing Group  | III   |

Emergency Response  
Guide Number

128

Section 15 - REGULATORY INFORMATION

Regulatory information with regard to this product in your country or in your region should be examined by your own responsibility.

Section 16 - OTHER INFORMATION

Information Contact  
Other Property

No information available

This information is furnished without warranty  
express or implied.

This information is believed to be accurate to the  
best knowledge of PENTEL Co., Ltd. but not assumes  
leagal responsibility for use of or reliance upon this  
information.

## Safety Data Sheet (SDS)

Preparation Date 2015/09/28

Revision Date 2017/09/04

## Section 1 - CHEMICALS AND COMPANY IDENTIFICATION

|  |  |
|--|--|
| Chemical Identifier                    | OPF8-N   |
| Product Code                           | OPF8N00002   |
| Company Name                           | PENTEL CO., LTD.   |
| Address                                | 7-2,KOAMICHO,NIHONBASHI,CHUO-KU,TOKYO                        |
| Company Contact                        | QUALITY ASSURANCE DEPARTMENT I                               |
| Phone Number                           | 03-5695-7210   |
| Fax Number                             | 03-5645-8204   |
| Mail Address                           | hinpo@pentel.co.jp   |
| Australian Co.                         | PENTEL AUSTRALIA PTY LTD                                     |
| Address                                | Unit 4, 12 Mars Road, Lane Cove West NSW 2066                |
| Company Contact                        | Customer Service   |
| Mail Address                           | <a href="mailto:sales@pentel.com.au">sales@pentel.com.au</a> |
| Emergency Phone Number                 | 02 9425 4800   |
| Recommended Use and Restriction on Use | ink  |
|  | MMP20-N  |

## Section 2 - HAZARDS IDENTIFICATION

## GHS Classification

|                         |   |
|-------------------------|---|
| Physicochemical Hazards | Flammable liquids Category 3  |
| Health Hazards          | Serious eye damage/eye irritation Category 2B<br>Carcinogenicity Category 2<br>Specific target organ toxicity (single exposure) Category 3(narcotic effect,respiratory tract irritation)                        |
| Environmental Hazards   | Hazardous to the aquatic environment (acute) Category 2<br>Hazardous to the aquatic environment (long-term) Category 2<br>Other hazards than mentioned above are Not applicable or Classification not possible. |

## GHS Label Elements

## Symbols



## Signal Word

Warning

|                          |  |
|--------------------------|--|
| Hazard Statements        | <p>H226 Flammable liquid and vapour</p> <p>H320 Causes eye irritation</p> <p>H335 May cause respiratory irritation</p> <p>H336 May cause drowsiness and dizziness</p> <p>H351 Suspected of causing cancer</p> <p>H411 Toxic to aquatic life with long lasting effects</p>  |
| Precautionary Statements |  |
| Prevention               | Do not handle until all safety precautions have been read and understood.(P202)  |
| Precautionary Statements | <p>Keep away from heat, sparks, open flames and hot surfaces. No smoking.(P210)</p> <p>Keep container tightly closed.(P233)</p> <p>Avoid breathing gas.(P261)</p> <p>Avoid breathing mist, vapours and spray.(P261)</p> <p>Avoid breathing dust and fume.(P261)</p> <p>Wash eye thoroughly after handling.(P264)</p> <p>Wash hand thoroughly after handling.(P264)</p> <p>Use only outdoors or in a well-ventilated area.(P271)</p> <p>Wear protective gloves, eye protection and face protection.(P280)</p> |
| Response                 | IF ON SKIN: Wash with plenty of soap and water.(P302+P352)   |
| Precautionary Statements | <p>If skin irritation or rash occurs, get medical advice and attention.(P333+P313)</p> <p>IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.(P304+P340)</p> <p>Get medical advice and attention if you feel unwell.(P314)</p> <p>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.(P305+P351+P338)</p> <p>If eye irritation persists: Get medical advice and attention.(P337+P313)</p> |
| Storage                  | Store in a well-ventilated place keeping container tightly closed.(P403+P233)  |
| Precautionary Statements | Store locked up.(P405)   |
| Disposal                 | Dispose of contents and container in accordance with local, regional and national regulations (to be specified).(P501)   |
| Precautionary Statements |  |

## Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Distinction of Substance or  
Mixture

Mixture

| Chemical Name or Generic Name           | Concentration or Its Ranges | Formula                        | ENCS No./ISHL No.   |          | CAS RN     |
|---|-----------------------------|--------------------------------|---------------------|----------|------------|
|   |                             |                                | ENCS No.            | ISHL No. |            |
| Propyleneglycol monomethylether acetate | 47%                         |                                | (2)-3144            | Existing | 108-65-6   |
| Ethylcyclohexane                        | 14%                         | C <sub>8</sub> H <sub>16</sub> | (3)-2231            | Existing | 1678-91-7  |
| Carbon black                            | 0.32%                       |                                | Unknown             | Unknown  | 1333-86-4  |
| Titanium dioxide                        | 27.75%                      | TiO <sub>2</sub>               | (1)-558<br>(5)-5225 | Existing | 13463-67-7 |
| Nitrocellulose                          | 4.01%                       |                                | (8)-176             | Existing | 9004-70-0  |

Impurities and/or  
Stabilizing Additives which  
Contribute to the  
Classification

No information available

#### Section 4 - FIRST AID MEASURES

Inhalation

Remove person to fresh air and keep comfortable for breathing.

Get medical advice and attention if you feel unwell.

Skin Contact

Wash with plenty of soap and water.

If skin irritation or rash occurs, get medical advice and attention.

Get medical advice and attention if you feel unwell.

Eye Contact

Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do.

Continue rinsing.

When the ocular stimulation lasts, Seek medical treatment and advice.

Ingestion

Rinse mouth. Do NOT induce vomiting.

Get medical advice and attention if you feel unwell.

#### Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media

Dry chemicals, CO<sub>2</sub>, water spray or regular foam.

Unsuitable Extinguishing  
Media

Straight streams.

Protection of Fire Fighter

In fire fighting, wear respiratory protection and chemical protective clothing.

#### Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions,  
Protective Equipment and  
Emergency Procedures

Wear appropriate personal protective equipment (Refer to "Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION") and avoid inhalation or contact with eyes and skin.

Environmental Precautions

Do not release into the environment.

Methods and Equipment  
for Containment and  
Cleaning up

Pay attention not to cause the influence on the environment by discharging into rivers.

This product is water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.

Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container.

Vacuum or sweep up material and place in a disposal container.

Remove from water surface by skimming or with suitable absorbents. Do not use dispersants.

Allow material to solidify, and scrape up.  
After removal, flush contaminated area thoroughly with water.

Prevention Measures for  
Secondary Accidents

Removes all ignition sources promptly. (Prohibition of smoking, sparks, and flames in the surrounding area).

Prevent flowing into drain, sewage, basement, and closed area.

Remove thoroughly since the smooth and slippery surface will be formed on the floor.

## Section 7 - HANDLING AND STORAGE

### Handling

#### Technical Measures

Provide ventilation system and use necessary personal protective equipment as described in "Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION".

#### Precautions for Safe Handling

Do not handle until all safety precautions have been read and understood.

Prohibit use of heat, sparks, and fire in the surrounding area.

Wash hand thoroughly after handling.

Avoid contact with eyes.

Use exhaust ventilation.

Avoid breathing dust and fume.

Avoid breathing gas.

Avoid breathing mist, vapours and spray.

Handle at a well-ventilated place.

Protect from high temperature and direct sunlight.

|                                  |  |   |
|----------------------------------|--|---|
| Storage Precautionary Statements | Prevents Handling of Incompatible Substances or Mixtures | Refer to "Section 10 - STABILITY AND REACTIVITY".   |
|                                  | Specific Hygiene Measures                                | Wash hand thoroughly after handling.  |
| Storage Precautionary Statements | Conditions for Safe Storage                              | <p>The storage facility should be designed with fire-proof construction and beams should use a non-combustible material.</p> <p>The roof of a storage facility should be made of a non-combustible material and use metals or other lightweight non-combustible materials. No ceiling should be installed.</p> <p>The storage floor should be protected from water penetration, or should have water-proof construction.</p> <p>The storage floor should have penetration-proof construction against dangerous goods and be inclined adequately. A proper sump should be provided to catch any spills.</p> <p>The storage facility should be provided with necessary lighting, lighting equipment, and ventilator to store and handle dangerous goods.</p> <p>Refer to "Section 10 - STABILITY AND REACTIVITY".</p> |
|                                  | Material Used in Packaging/Containers                    | <p>Keep away from heat, sparks, open flames and hot surfaces. No smoking.</p> <p>Have containers keep away from direct sunlight and heat.</p> <p>Store in a well-ventilated and cool place keeping container tightly closed.</p> <p>Store locked up.</p> <p>Use containers prescribed in the "Fire Service Law (Japan)" and the "UN Transport Regulations".</p>   |

## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

|                               |                          |   |
|-------------------------------|--------------------------|---|
| Engineering Controls          |                          | Use explosion-proof electrical, ventilating and lighting equipment.                     |
|                               |                          | Good general ventilation should be sufficient to control airborne levels.               |
| Personal Protective Equipment | Respiratory Protection   | Use personal respiratory equipment as required.   |
|                               | Hand Protection          | Wear protective gloves.   |
|                               | Eye Protection           | Wear eye protection.  |
|                               | Skin and Body Protection | Protection glasses (ordinary glasses, ordinary glasses with side shields, and goggles). |
|                               |                          | Wear face protection.   |

Use personal protective clothing and face protection as required.

## Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

|  |                |                       |
|--|----------------|-----------------------|
| Appearance                               | Physical State | liquid                |
|  | Form           | liquid                |
|  | Colour         | grey                  |
| Odour                                    |                | characteristic        |
| Odour threshold                          |                | No data available     |
| pH                                       |                | No data available     |
| Melting Point/Freezing Point             |                | No data available     |
| Initial Boiling Point and Boiling Ranges |                | No data available     |
| Flash Point                              |                | 24°C (Tag Closed Cup) |
| Evaporation Rate                         |                | No data available     |
| Flammability (solid, gas)                |                | No data available     |
| Flammability or Explosive Limits         | Lower Limit    | No data available     |
|  | Upper Limit    | No data available     |
| Vapour Pressure                          |                | No data available     |
| Vapour Density                           |                | No data available     |
| Specific Gravity (Density)               |                | No data available     |
| Partition Coefficient : n-Octanol/Water  |                | No data available     |
| Auto-Ignition Temperature                |                | No data available     |
| Decomposition Temperature                |                | No data available     |
| Viscosity                                |                | No data available     |
| Kinematic viscosity                      |                | No data available     |

## Section 10 - STABILITY AND REACTIVITY

|                                     |                   |
|-------------------------------------|-------------------|
| Reactivity                          | No data available |
| Chemical stability                  | No data available |
| Possibility of Hazardous Reaction   | No data available |
| Conditions to Avoid                 | No data available |
| Incompatible Substances or Mixtures | No data available |
| Hazardous Decomposition Products    | No data available |

## Section 11 - TOXICOLOGICAL INFORMATION

|                           |                          |
|---------------------------|--------------------------|
| Acute Toxicity            | No information available |
| Skin Corrosion/Irritation | No data available        |

|  |                   |
|--|-------------------|
| Serious eye damage/eye irritation                | No data available |
| Respiratory or Skin Sensitization                | No data available |
| Germ Cell Mutagenicity                           | No data available |
| Carcinogenicity                                  | No data available |
| Reproductive Toxicity                            | No data available |
| Specific target organ toxicity (single exposure) | No data available |

|  |                   |
|--|-------------------|
| Specific target organ toxicity (repeated exposure) | No data available |
| Aspiration Hazard                                  | No data available |

## Section 12 - ECOLOGICAL INFORMATION

|  |                   |
|--|-------------------|
| Hazardous to the aquatic environment (acute)     | No data available |
| Hazardous to the aquatic environment (long-term) | No data available |
| Hazardous to the ozone layer                     | No data available |

## Section 13 - DISPOSAL CONSIDERATIONS

|                                      |  |
|--------------------------------------|--|
| Residual Waste                       | <p>Disposal should be in accordance with applicable regulations and standards by the respective local governments.</p> <p>Commission a waste disposal company, or a local public body who are licensed by local or regional government, to dispose of the material.</p> <p>When commissioning the disposal to a disposal company, notify the danger and toxicity thoroughly to the company.</p> <p>Do not release waste liquid containing the product and used water for cleansing into rivers, etc., or do not discharge the concerned wastes intact for reclamation.</p> |
| Contaminated Container and Packaging | <p>Recycle containers after cleansing, or carry out the disposal under the related laws and regulations and the standards of the local governments.</p> <p>In case of disposal of empty containers, remove the content thoroughly.</p>   |

## Section 14 - TRANSPORT INFORMATION

|                           |                               |                                   |
|---------------------------|-------------------------------|-----------------------------------|
| International Regulations | Regulatory Information by Sea | Conform to the provisions of IMO. |
|---------------------------|-------------------------------|-----------------------------------|

|                                 |  |   |
|---------------------------------|--|---|
| Regulations in Japan            | UN No.   | 1263  |
|                                 | Proper Shipping Name   | PAINT RELATED MATERIAL                                  |
|                                 | Class  | 3   |
|                                 | Packing Group  | III   |
|                                 | Marine Pollutant   | Not applicable  |
|                                 | Transport in bulk according to MARPOL 73/78,Annex II ,and the IBC code | Not applicable  |
|                                 | Regulatory Information by Air  | Conform to the provisions of ICAO/IATA.                 |
|                                 | UN No.   | 1263  |
|                                 | Proper Shipping Name   | PAINT RELATED MATERIAL                                  |
|                                 | Class  | 3   |
| Regulations in Japan            | Packing Group  | III   |
|                                 | Regulatory Information by Road or Rail                                 | Not applicable  |
|                                 | Regulatory Information by Sea  | Conform to the provisions of the Ship Safety Law.       |
|                                 | UN No.   | 1263  |
|                                 | Proper Shipping Name.  | PAINT RELATED MATERIAL                                  |
|                                 | Class  | 3   |
|                                 | Packing Group  | III   |
|                                 | Marine Pollutant   | Not applicable  |
|                                 | Transport in bulk according to MARPOL 73/78,Annex II ,and the IBC code | Not applicable  |
|                                 | Regulatory Information by Air  | Conform to the provisions of the Civil Aeronautics Law. |
| Emergency Response Guide Number | UN No.   | 1263  |
|                                 | Proper Shipping Name.  | PAINT RELATED MATERIAL                                  |
|                                 | Class  | 3   |
|                                 | Packing Group  | III   |
|                                 |  | 128   |

#### Section 15 - REGULATORY INFORMATION

Regulatory information with regard to this product in your country or in your region should be examined by your own responsibility.

## Section 16 - OTHER INFORMATION

Information Contact

No information available

Other Property

This information is furnished without warranty  
express or implied.

This information is believed to be accurate to the  
best knowledge of PENTEL Co., Ltd. but not assumes  
leagal responsibility for use of or reliance upon this  
information.

## Safety Data Sheet (SDS)

Preparation Date 2015/09/28

Revision Date 2017/09/04

## Section 1 - CHEMICALS AND COMPANY IDENTIFICATION

|  |  |
|--|--|
| Chemical Identifier                    | OPF8-P   |
| Product Code                           | OPF8P00002   |
| Company Name                           | PENTEL CO., LTD.   |
| Address                                | 7-2,KOAMICHO,NIHONBASHI,CHUO-KU,TOKYO                        |
| Company Contact                        | QUALITY ASSURANCE DEPARTMENT I                               |
| Phone Number                           | 03-5695-7210   |
| Fax Number                             | 03-5645-8204   |
| Mail Address                           | hinpo@pentel.co.jp   |
| Australian Co.                         | PENTEL AUSTRALIA PTY LTD                                     |
| Address                                | Unit 4, 12 Mars Road, Lane Cove West NSW 2066                |
| Company Contact                        | Customer Service   |
| Mail Address                           | <a href="mailto:sales@pentel.com.au">sales@pentel.com.au</a> |
| Emergency Phone Number                 | 02 9425 4800   |
| Recommended Use and Restriction on Use | ink<br><br>MMP20-P、MSP20-P、MWP30-P、MMPINK-P                  |

## Section 2 - HAZARDS IDENTIFICATION

## GHS Classification

|                         |   |
|-------------------------|---|
| Physicochemical Hazards | Flammable liquids Category 3  |
| Health Hazards          | Serious eye damage/eye irritation Category 2A<br>Carcinogenicity Category 2<br>Specific target organ toxicity (single exposure)   |
| Environmental Hazards   | Hazardous to the aquatic environment (acute) Category 2<br>Hazardous to the aquatic environment (long-term) Category 2<br>Other hazards than mentioned above are Not applicable or Classification not possible. |

## GHS Label Elements

## Symbols



|                   |  |
|-------------------|--|
| Signal Word       | Warning  |
| Hazard Statements | H319 Causes serious eye irritation<br>H226 Flammable liquid and vapour |

|                          |  |
|--------------------------|--|
|                          | H335 May cause respiratory irritation<br>H336 May cause drowsiness and dizziness<br>H351 Suspected of causing cancer<br>H411 Toxic to aquatic life with long lasting effects   |
| Precautionary Statements |  |
| Prevention               | Do not handle until all safety precautions have been read and understood.(P202)  |
| Precautionary Statements | Keep away from heat, sparks, open flames and hot<br>Keep container tightly closed.(P233)<br>Avoid breathing gas.(P261)<br>Avoid breathing mist, vapours and spray.(P261)<br>Avoid breathing dust and fume.(P261)<br>Wash eye thoroughly after handling.(P264)<br>Wash hand thoroughly after handling.(P264)<br>Use only outdoors or in a well-ventilated area.(P271) |
|                          | Wear protective gloves, eye protection and face protection.(P280)  |
| Response                 | IF ON SKIN: Wash with plenty of soap and water.(P302+P352)   |
| Precautionary Statements | If skin irritation or rash occurs, get medical advice and attention.(P333+P313)<br>IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.(P304+P340)  |
|                          | Get medical advice and attention if you feel unwell.(P314)<br>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.(P305+P351+P338)   |
|                          | If eye irritation persists: Get medical advice and attention.(P337+P313)   |
| Storage                  | Store in a well-ventilated place keeping container tightly closed.(P403+P233)  |
| Precautionary Statements | Store locked up.(P405)   |
| Disposal                 | Dispose of contents and container in accordance with local, regional and national regulations (to be specified).(P501)   |
| Precautionary Statements |  |

## Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Distinction of Substance or

Mixture

Mixture

| Chemical Name or Generic Name | Concentration or Its Ranges | Formula | ENCs No./ISHL No. |          | CAS RN |
|-------------------------------|-----------------------------|---------|-------------------|----------|--------|
|                               |                             |         | ENCs No.          | ISHL No. |        |

|   |      |       |                     |          |            |
|---|------|-------|---------------------|----------|------------|
| Propyleneglycol monomethylether acetate | 52%  |       | (2)-3144            | Existing | 108-65-6   |
| Ethylcyclohexane                        | 9.5% | C8H16 | (3)-2231            | Existing | 1678-91-7  |
| Titanium dioxide                        | 12%  | TiO2  | (1)-558<br>(5)-5225 | Existing | 13463-67-7 |
| Nitrocellulose                          | 1.6% |       | (8)-176             | Existing | 9004-70-0  |

Impurities and/or  
Stabilizing Additives which  
Contribute to the  
Classification

No information available

#### Section 4 - FIRST AID MEASURES

Inhalation

Remove person to fresh air and keep comfortable for breathing.

Get medical advice and attention if you feel unwell.

Skin Contact

Wash with plenty of soap and water.

If skin irritation or rash occurs, get medical advice and attention.

Get medical advice and attention if you feel unwell.

Eye Contact

Rinse cautiously with water for several minutes. When the ocular stimulation lasts, Seek medical treatment and advice.

Ingestion

Rinse mouth. Do NOT induce vomiting.

Get medical advice and attention if you feel unwell.

#### Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media

Dry chemicals, CO2, water spray or regular foam.

Unsuitable Extinguishing  
Media

Straight streams.

Protection of Fire Fighter

In fire fighting, wear respiratory protection and chemical protective clothing.

#### Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions,  
Protective Equipment and  
Emergency Procedures

Wear appropriate personal protective equipment (Refer to "Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION") and avoid inhalation or contact with eyes and skin.

Environmental Precautions

Do not release into the environment.

Pay attention not to cause the influence on the environment by discharging into rivers.

This product is water pollutant and should be

Methods and Equipment  
for Containment and  
Cleaning up

Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container.

Vacuum or sweep up material and place in a disposal container.

Remove from water surface by skimming or with suitable absorbents. Do not use dispersants.

Allow material to solidify, and scrape up.

After removal, flush contaminated area thoroughly with water.

Prevention Measures for  
Secondary Accidents

Removes all ignition sources promptly. (Prohibition of smoking, sparks, and flames in the surrounding area).

Prevent flowing into drain, sewage, basement, and closed area.

Remove thoroughly since the smooth and slippery surface will be formed on the floor.

## Section 7 - HANDLING AND STORAGE

### Handling

#### Technical Measures

Provide ventilation system and use necessary personal protective equipment as described in "Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION".

#### Precautions for Safe Handling

Do not handle until all safety precautions have been read and understood.

Prohibit use of heat, sparks, and fire in the surrounding area.

Wash hand thoroughly after handling.

Avoid contact with eyes.

Use exhaust ventilation.

Avoid breathing dust and fume.

Avoid breathing gas.

Avoid breathing mist, vapours and spray.

Handle at a well-ventilated place.

Protect from high temperature and direct sunlight.

#### Prevents Handling of Incompatible Substances or Mixtures

Refer to "Section 10 - STABILITY AND REACTIVITY".

#### Specific Hygiene Measures

Wash hand thoroughly after handling.

|                                  |                                       |  |
|----------------------------------|---------------------------------------|--|
| Storage Precautionary Statements | Conditions for Safe Storage           | <p>The storage facility should be designed with fire-proof construction and beams should use a non-combustible material.</p> <p>The roof of a storage facility should be made of a non-combustible material and use metals or other lightweight non-combustible materials. No ceiling should be installed.</p> <p>The storage floor should be protected from water penetration, or should have water-proof construction.</p> <p>The storage floor should have penetration-proof construction against dangerous goods and be inclined adequately. A proper sump should be provided to catch any spills.</p> <p>The storage facility should be provided with necessary lighting, lighting equipment, and ventilator to store and handle dangerous goods.</p> <p>Refer to "Section 10 - STABILITY AND REACTIVITY".</p> <p>Keep away from heat, sparks, open flames and hot surfaces. No smoking.</p> <p>Have containers keep away from direct sunlight and heat.</p> <p>Store in a well-ventilated and cool place keeping container tightly closed.</p> <p>Store locked up.</p> |
|                                  | Material Used in Packaging/Containers | Use containers prescribed in the "Fire Service Law (Japan)" and the "UN Transport Regulations".  |

## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

|                               |                          |   |
|-------------------------------|--------------------------|---|
| Engineering Controls          |                          | <p>Use explosion-proof electrical, ventilating and lighting equipment.</p> <p>Good general ventilation should be sufficient to control airborne levels.</p> |
| Personal Protective Equipment | Respiratory Protection   | Use personal respiratory equipment as required.   |
|                               | Hand Protection          | Wear protective gloves.   |
|                               | Eye Protection           | Wear eye protection.  |
|                               |                          | Protection glasses (ordinary glasses, ordinary glasses with side shields, and goggles).   |
|                               | Skin and Body Protection | Wear face protection.   |
|                               |                          | Use personal protective clothing and face protection as required.   |

## Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

|            |                |        |
|------------|----------------|--------|
| Appearance | Physical State | liquid |
|            | Form           | liquid |

|  |             |                          |
|--|-------------|--------------------------|
|  | Colour      | pink                     |
| Odour                                    |             | characteristic           |
| Odour threshold                          |             | No data available        |
| pH                                       |             | No data available        |
| Melting Point/Freezing Point             |             | No data available        |
| Initial Boiling Point and Boiling Ranges |             | No data available        |
| Flash Point                              |             | 24°C (Tag Closed Cup)    |
| Evaporation Rate                         |             | No data available        |
| Flammability (solid, gas)                |             | No data available        |
| Flammability or Explosive Limits         | Lower Limit | No data available        |
|  | Upper Limit | No data available        |
| Vapour Pressure                          |             | No data available        |
| Vapour Density                           |             | No data available        |
| Specific Gravity (Density)               |             | No data available        |
| Partition Coefficient : n-Octanol/Water  |             | No data available        |
| Auto-Ignition Temperature                |             | No data available        |
| Decomposition Temperature                |             | No data available        |
| Viscosity                                |             | No data available        |
| Kinematic viscosity                      |             | No data available        |
| Section 10 - STABILITY AND REACTIVITY    |             |                          |
| Reactivity                               |             | No data available        |
| Chemical stability                       |             | No data available        |
| Possibility of Hazardous Reaction        |             | No data available        |
| Conditions to Avoid                      |             | No data available        |
| Incompatible Substances or Mixtures      |             | No data available        |
| Hazardous Decomposition Products         |             | No data available        |
| Section 11 - TOXICOLOGICAL INFORMATION   |             |                          |
| Acute Toxicity                           |             | No information available |
| Skin Corrosion/Irritation                |             | No data available        |
| Serious eye damage/eye irritation        |             | No data available        |
| Respiratory or Skin Sensitization        |             | No data available        |
| Germ Cell Mutagenicity                   |             | No data available        |
| Carcinogenicity                          |             | No data available        |

|  |                   |
|--|-------------------|
| Reproductive Toxicity                            | No data available |
| Specific target organ toxicity (single exposure) | No data available |

|  |                   |
|--|-------------------|
| Specific target organ toxicity (repeated exposure) | No data available |
|--|-------------------|

|                   |                   |
|-------------------|-------------------|
| Aspiration Hazard | No data available |
|-------------------|-------------------|

## Section 12 - ECOLOGICAL INFORMATION

|  |                   |
|--|-------------------|
| Hazardous to the aquatic environment (acute) | No data available |
|--|-------------------|

|  |                   |
|--|-------------------|
| Hazardous to the aquatic environment (long-term) | No data available |
|--|-------------------|

|                              |                   |
|------------------------------|-------------------|
| Hazardous to the ozone layer | No data available |
|------------------------------|-------------------|

## Section 13 - DISPOSAL CONSIDERATIONS

|                |   |
|----------------|---|
| Residual Waste | <p>Disposal should be in accordance with applicable regulations and standards by the respective local governments.</p> <p>Commission a waste disposal company, or a local public body who are licensed by local or regional government, to dispose of the material.</p> |
|----------------|---|

When commissioning the disposal to a disposal company, notify the danger and toxicity thoroughly to the company.

Do not release waste liquid containing the product and used water for cleansing into rivers, etc., or do not discharge the concerned wastes intact for reclamation.

|                                      |  |
|--------------------------------------|--|
| Contaminated Container and Packaging | Recycle containers after cleansing, or carry out the disposal under the related laws and regulations and the standards of the local governments. |
|--------------------------------------|--|

In case of disposal of empty containers, remove the content thoroughly.

## Section 14 - TRANSPORT INFORMATION

|                           |                               |                                   |
|---------------------------|-------------------------------|-----------------------------------|
| International Regulations | Regulatory Information by Sea | Conform to the provisions of IMO. |
|                           | UN No.                        | 1263                              |
|                           | Proper Shipping Name          | PAINT RELATED MATERIAL            |
|                           | Class                         | 3                                 |
|                           | Packing Group                 | III                               |

|                                 |  |   |
|---------------------------------|--|---|
|                                 | Marine Pollutant   | Not applicable  |
|                                 | Transport in bulk according to MARPOL 73/78,Annex II ,and the IBC code | Not applicable  |
| Regulations in Japan            | Regulatory Information by Air  | Conform to the provisions of ICAO/IATA.                 |
|                                 | UN No.   | 1263  |
|                                 | Proper Shipping Name   | PAINT RELATED MATERIAL                                  |
|                                 | Class  | 3   |
|                                 | Packing Group  | III   |
|                                 | Regulatory Information by Road or Rail                                 | Not applicable  |
|                                 | Regulatory Information by Sea  | Conform to the provisions of the Ship Safety Law.       |
|                                 | UN No.   | 1263  |
|                                 | Proper Shipping Name.  | PAINT RELATED MATERIAL                                  |
|                                 | Class  | 3   |
|                                 | Packing Group  | III   |
|                                 | Marine Pollutant   | Not applicable  |
|                                 | Transport in bulk according to MARPOL 73/78,Annex II ,and the IBC code | Not applicable  |
|                                 | Regulatory Information by Air  | Conform to the provisions of the Civil Aeronautics Law. |
| Emergency Response Guide Number | UN No.   | 1263  |
|                                 | Proper Shipping Name.  | PAINT RELATED MATERIAL                                  |
|                                 | Class  | 3   |
|                                 | Packing Group  | III   |
|                                 |  | 128   |

#### Section 15 - REGULATORY INFORMATION

Regulatory information with regard to this product in your country or in your region should be examined by your own responsibility.

#### Section 16 - OTHER INFORMATION

|                     |  |
|---------------------|--|
| Information Contact | No information available   |
| Other Property      | This information is furnished without warranty express or implied. |

This information is believed to be accurate to the best knowledge of PENTEL Co., Ltd. but not assumes leagal responsibility for use of or reliance upon this information.

## Safety Data Sheet (SDS)

Preparation Date 2015/09/29

Revision Date 2017/09/04

## Section 1 - CHEMICALS AND COMPANY IDENTIFICATION

|  |  |
|--|--|
| Chemical Identifier                    | OPF8-S   |
| Product Code                           | OPF8S00003   |
| Company Name                           | PENTEL CO., LTD.   |
| Address                                | 7-2,KOAMICHO,NIHONBASHI,CHUO-KU,TOKYO                        |
| Company Contact                        | QUALITY ASSURANCE DEPARTMENT I                               |
| Phone Number                           | 03-5695-7210   |
| Fax Number                             | 03-5645-8204   |
| Mail Address                           | hinpo@pentel.co.jp   |
| Australian Co.                         | PENTEL AUSTRALIA PTY LTD                                     |
| Address                                | Unit 4, 12 Mars Road, Lane Cove West NSW 2066                |
| Company Contact                        | Customer Service   |
| Mail Address                           | <a href="mailto:sales@pentel.com.au">sales@pentel.com.au</a> |
| Emergency Phone Number                 | 02 9425 4800   |
| Recommended Use and Restriction on Use | ink  |
|  | MMP20-S  |

## Section 2 - HAZARDS IDENTIFICATION

## GHS Classification

|                         |   |
|-------------------------|---|
| Physicochemical Hazards | Flammable liquids Category 3  |
| Health Hazards          | Serious eye damage/eye irritation Category 2B<br>Carcinogenicity Category 2<br>Specific target organ toxicity (single exposure)   |
| Environmental Hazards   | Hazardous to the aquatic environment (acute) Category 2<br>Hazardous to the aquatic environment (long-term) Category 2<br>Other hazards than mentioned above are Not applicable or Classification not possible. |

## GHS Label Elements

## Symbols



|                   |  |
|-------------------|--|
| Signal Word       | Warning  |
| Hazard Statements | H226 Flammable liquid and vapour<br>H320 Causes eye irritation |

|                          |  |
|--------------------------|--|
|                          | <p>H335 May cause respiratory irritation</p> <p>H336 May cause drowsiness and dizziness</p> <p>H351 Suspected of causing cancer</p> <p>H411 Toxic to aquatic life with long lasting effects</p>  |
| Precautionary Statements |  |
| Prevention               | Do not handle until all safety precautions have been read and understood.(P202)  |
| Precautionary Statements | <p>Keep away from heat, sparks, open flames and hot surfaces. No smoking.(P210)</p> <p>Keep container tightly closed.(P233)</p> <p>Avoid breathing gas.(P261)</p> <p>Avoid breathing mist, vapours and spray.(P261)</p> <p>Avoid breathing dust and fume.(P261)</p> <p>Wash eye thoroughly after handling.(P264)</p> <p>Wash hand thoroughly after handling.(P264)</p> <p>Use only outdoors or in a well-ventilated area.(P271)</p>  |
| Response                 | Wear protective gloves, eye protection and face protection.(P280)  |
| Precautionary Statements | <p>IF ON SKIN: Wash with plenty of soap and water.(P302+P352)</p> <p>If skin irritation or rash occurs, get medical advice and attention.(P333+P313)</p> <p>IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.(P304+P340)</p> <p>Get medical advice and attention if you feel unwell.(P314)</p> <p>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.(P305+P351+P338)</p> <p>If eye irritation persists: Get medical advice and attention.(P337+P313)</p> |
| Storage                  | Store in a well-ventilated place keeping container tightly closed.(P403+P233)  |
| Precautionary Statements | Store locked up.(P405)   |
| Disposal                 | Dispose of contents and container in accordance with local, regional and national regulations (to be specified).(P501)   |
| Precautionary Statements |  |

## Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Distinction of Substance or  
Mixture

Mixture

| Chemical Name or Generic Name           | Concentration or Its Ranges | Formula                        | ENCS No./ISHL No.                |          | CAS RN     |
|---|-----------------------------|--------------------------------|----------------------------------|----------|------------|
|   |                             |                                | ENCS No.                         | ISHL No. |            |
| Propyleneglycol monomethylether acetate | 51.9%                       |                                | (2)-3144                         | Existing | 108-65-6   |
| Ethylcyclohexane                        | 9.75%                       | C <sub>8</sub> H <sub>16</sub> | (3)-2231                         | Existing | 1678-91-7  |
| C.I.Pigment Blue 15                     | 0.3%                        |                                | (5)-3299<br>(5)-3300<br>(5)-5216 | Existing | 147-14-8   |
| Titanium dioxide                        | 20.31%                      | TiO <sub>2</sub>               | (1)-558<br>(5)-5225              | Existing | 13463-67-7 |
| Nitrocellulose                          | 3.01%                       |                                | (8)-176                          | Existing | 9004-70-0  |

Impurities and/or  
Stabilizing Additives which  
Contribute to the  
Classification

No information available

#### Section 4 - FIRST AID MEASURES

Inhalation

Remove person to fresh air and keep comfortable for breathing.

Get medical advice and attention if you feel unwell.

Skin Contact

Wash with plenty of soap and water.

If skin irritation or rash occurs, get medical advice and attention.

Get medical advice and attention if you feel unwell.

Eye Contact

Rinse cautiously with water for several minutes.

When the ocular stimulation lasts, Seek medical treatment and advice.

Ingestion

Rinse mouth. Do NOT induce vomiting.

Get medical advice and attention if you feel unwell.

#### Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media

Dry chemicals, CO<sub>2</sub>, water spray or regular foam.

Unsuitable Extinguishing  
Media

Straight streams.

Protection of Fire Fighter

In fire fighting, wear respiratory protection and chemical protective clothing.

#### Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions,  
Protective Equipment and  
Emergency Procedures

Wear appropriate personal protective equipment (Refer to "Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION") and avoid inhalation or contact with eyes and skin.

Environmental Precautions

Do not release into the environment.

## Methods and Equipment for Containment and Cleaning up

Pay attention not to cause the influence on the environment by discharging into rivers.

This product is water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.

Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container.

Vacuum or sweep up material and place in a disposal container.

Remove from water surface by skimming or with suitable absorbents. Do not use dispersants.

Allow material to solidify, and scrape up.  
After removal, flush contaminated area thoroughly with water.

## Prevention Measures for Secondary Accidents

Removes all ignition sources promptly. (Prohibition of smoking, sparks, and flames in the surrounding area).

Prevent flowing into drain, sewage, basement, and closed area.

Remove thoroughly since the smooth and slippery surface will be formed on the floor.

## Section 7 - HANDLING AND STORAGE

### Handling

#### Technical Measures

Provide ventilation system and use necessary personal protective equipment as described in "Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION".

#### Precautions for Safe Handling

Do not handle until all safety precautions have been read and understood.

Prohibit use of heat, sparks, and fire in the surrounding area.

Wash hand thoroughly after handling.

Avoid contact with eyes.

Use exhaust ventilation.

Avoid breathing dust and fume.

Avoid breathing gas.

Avoid breathing mist, vapours and spray.

Handle at a well-ventilated place.

Protect from high temperature and direct sunlight.

|                                  |  |   |
|----------------------------------|--|---|
| Storage Precautionary Statements | Prevents Handling of Incompatible Substances or Mixtures | Refer to "Section 10 - STABILITY AND REACTIVITY".   |
|                                  | Specific Hygiene Measures                                | Wash hand thoroughly after handling.  |
|                                  | Conditions for Safe Storage                              | <p>The storage facility should be designed with fire-proof construction and beams should use a non-combustible material.</p> <p>The roof of a storage facility should be made of a non-combustible material and use metals or other lightweight non-combustible materials. No ceiling should be installed.</p> <p>The storage floor should be protected from water penetration, or should have water-proof construction.</p> <p>The storage floor should have penetration-proof construction against dangerous goods and be inclined adequately. A proper sump should be provided to catch any spills.</p> <p>The storage facility should be provided with necessary lighting, lighting equipment, and ventilator to store and handle dangerous goods.</p> <p>Refer to "Section 10 - STABILITY AND REACTIVITY".</p> |
|                                  | Material Used in Packaging/Containers                    | <p>Keep away from heat, sparks, open flames and hot surfaces. No smoking.</p> <p>Have containers keep away from direct sunlight and heat.</p> <p>Store in a well-ventilated and cool place keeping container tightly closed.</p> <p>Store locked up.</p> <p>Use containers prescribed in the "Fire Service Law (Japan)" and the "UN Transport Regulations".</p>   |

## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

|                               |                          |   |
|-------------------------------|--------------------------|---|
| Personal Protective Equipment | Engineering Controls     | <p>Use explosion-proof electrical, ventilating and lighting equipment.</p> <p>Good general ventilation should be sufficient to control airborne levels.</p> |
|                               | Respiratory Protection   | Use personal respiratory equipment as required.   |
|                               | Hand Protection          | Wear protective gloves.   |
|                               | Eye Protection           | <p>Wear eye protection.</p> <p>Protection glasses (ordinary glasses, ordinary glasses with side shields, and goggles).</p>                                  |
|                               | Skin and Body Protection | Wear face protection.   |

Use personal protective clothing and face protection as required.

## Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

|  |                |                       |
|--|----------------|-----------------------|
| Appearance                               | Physical State | liquid                |
|  | Form           | liquid                |
|  | Colour         | sky blue              |
| Odour                                    |                | characteristic        |
| Odour threshold                          |                | No data available     |
| pH                                       |                | No data available     |
| Melting Point/Freezing Point             |                | No data available     |
| Initial Boiling Point and Boiling Ranges |                | No data available     |
| Flash Point                              |                | 24°C (Tag Closed Cup) |
| Evaporation Rate                         |                | No data available     |
| Flammability (solid, gas)                |                | No data available     |
| Flammability or Explosive Limits         | Lower Limit    | No data available     |
|  | Upper Limit    | No data available     |
| Vapour Pressure                          |                | No data available     |
| Vapour Density                           |                | No data available     |
| Specific Gravity (Density)               |                | No data available     |
| Partition Coefficient : n-Octanol/Water  |                | No data available     |
| Auto-Ignition Temperature                |                | No data available     |
| Decomposition Temperature                |                | No data available     |
| Viscosity                                |                | No data available     |
| Kinematic viscosity                      |                | No data available     |

## Section 10 - STABILITY AND REACTIVITY

|                                     |                   |
|-------------------------------------|-------------------|
| Reactivity                          | No data available |
| Chemical stability                  | No data available |
| Possibility of Hazardous Reaction   | No data available |
| Conditions to Avoid                 | No data available |
| Incompatible Substances or Mixtures | No data available |
| Hazardous Decomposition Products    | No data available |

## Section 11 - TOXICOLOGICAL INFORMATION

|                           |                          |
|---------------------------|--------------------------|
| Acute Toxicity            | No information available |
| Skin Corrosion/Irritation | No data available        |

|  |                   |
|--|-------------------|
| Serious eye damage/eye irritation                | No data available |
| Respiratory or Skin Sensitization                | No data available |
| Germ Cell Mutagenicity                           | No data available |
| Carcinogenicity                                  | No data available |
| Reproductive Toxicity                            | No data available |
| Specific target organ toxicity (single exposure) | No data available |

|  |                   |
|--|-------------------|
| Specific target organ toxicity (repeated exposure) | No data available |
| Aspiration Hazard                                  | No data available |

## Section 12 - ECOLOGICAL INFORMATION

|  |                   |
|--|-------------------|
| Hazardous to the aquatic environment (acute)     | No data available |
| Hazardous to the aquatic environment (long-term) | No data available |
| Hazardous to the ozone layer                     | No data available |

## Section 13 - DISPOSAL CONSIDERATIONS

|                                      |  |
|--------------------------------------|--|
| Residual Waste                       | <p>Disposal should be in accordance with applicable regulations and standards by the respective local governments.</p> <p>Commission a waste disposal company, or a local public body who are licensed by local or regional government, to dispose of the material.</p> <p>When commissioning the disposal to a disposal company, notify the danger and toxicity thoroughly to the company.</p> <p>Do not release waste liquid containing the product and used water for cleansing into rivers, etc., or do not discharge the concerned wastes intact for reclamation.</p> |
| Contaminated Container and Packaging | <p>Recycle containers after cleansing, or carry out the disposal under the related laws and regulations and the standards of the local governments.</p> <p>In case of disposal of empty containers, remove the</p>   |

## Section 14 - TRANSPORT INFORMATION

|                           |                               |        |                                   |
|---------------------------|-------------------------------|--------|-----------------------------------|
| International Regulations | Regulatory Information by Sea | UN No. | Conform to the provisions of IMO. |
|                           |                               |        | 1263                              |

|                                 |  |   |
|---------------------------------|--|---|
| Regulations in Japan            | Proper Shipping Name   | PAINT RELATED MATERIAL                                  |
|                                 | Class  | 3   |
|                                 | Packing Group  | III   |
|                                 | Marine Pollutant   | Not applicable  |
|                                 | Transport in bulk according to MARPOL 73/78,Annex II ,and the IBC code | Not applicable  |
|                                 | Regulatory Information by Air  | Conform to the provisions of ICAO/IATA.                 |
|                                 | UN No.   | 1263  |
|                                 | Proper Shipping Name   | PAINT RELATED MATERIAL                                  |
|                                 | Class  | 3   |
|                                 | Packing Group  | III   |
| Regulations in Japan            | Regulatory Information by Road or Rail                                 | Not applicable  |
|                                 | Regulatory Information by Sea  | Conform to the provisions of the Ship Safety Law.       |
|                                 | UN No.   | 1263  |
|                                 | Proper Shipping Name.  | PAINT RELATED MATERIAL                                  |
|                                 | Class  | 3   |
|                                 | Packing Group  | III   |
|                                 | Marine Pollutant   | Not applicable  |
|                                 | Transport in bulk according to MARPOL 73/78,Annex II ,and the IBC code | Not applicable  |
|                                 | Regulatory Information by Air  | Conform to the provisions of the Civil Aeronautics Law. |
|                                 | UN No.   | 1263  |
| Emergency Response Guide Number | Proper Shipping Name.  | PAINT RELATED MATERIAL                                  |
|                                 | Class  | 3   |
|                                 | Packing Group  | III   |
|                                 |  | 128   |

## Section 15 - REGULATORY INFORMATION

Regulatory information with regard to this product in your country or in your region should be examined by your own responsibility.

## Section 16 - OTHER INFORMATION

Information Contact  
Other Property

No information available

This information is furnished without warranty  
express or implied.

This information is believed to be accurate to the  
best knowledge of PENTEL Co., Ltd. but not assumes  
leagal responsibility for use of or reliance upon this  
information.

## Safety Data Sheet (SDS)

Preparation Date 2015/09/28

Revision Date 2017/09/04

## Section 1 - CHEMICALS AND COMPANY IDENTIFICATION

|  |  |
|--|--|
| Chemical Identifier                    | OPF8-V   |
| Product Code                           | OPF8V00003   |
| Company Name                           | PENTEL CO., LTD.   |
| Address                                | 7-2,KOAMICHO,NIHONBASHI,CHUO-KU,TOKYO                        |
| Company Contact                        | QUALITY ASSURANCE DEPARTMENT I                               |
| Phone Number                           | 03-5695-7210   |
| Fax Number                             | 03-5645-8204   |
| Mail Address                           | hinpo@pentel.co.jp   |
| Australian Co.                         | PENTEL AUSTRALIA PTY LTD                                     |
| Address                                | Unit 4, 12 Mars Road, Lane Cove West NSW 2066                |
| Company Contact                        | Customer Service   |
| Mail Address                           | <a href="mailto:sales@pentel.com.au">sales@pentel.com.au</a> |
| Emergency Phone Number                 | 02 9425 4800   |
| Recommended Use and Restriction on Use | ink  |
|  | MMP20-V  |

## Section 2 - HAZARDS IDENTIFICATION

## GHS Classification

|                         |   |
|-------------------------|---|
| Physicochemical Hazards | Flammable liquids Category 3  |
| Health Hazards          | Serious eye damage/eye irritation Category 2B<br>Carcinogenicity Category 2<br>Specific target organ toxicity (single exposure)   |
| Environmental Hazards   | Hazardous to the aquatic environment (acute) Category 2<br>Hazardous to the aquatic environment (long-term) Category 2<br>Other hazards than mentioned above are Not applicable or Classification not possible. |

## GHS Label Elements

## Symbols



|                   |  |
|-------------------|--|
| Signal Word       | Warning  |
| Hazard Statements | H226 Flammable liquid and vapour<br>H320 Causes eye irritation |

|                          |  |
|--------------------------|--|
|                          | H335 May cause respiratory irritation<br>H336 May cause drowsiness and dizziness<br>H351 Suspected of causing cancer<br>H411 Toxic to aquatic life with long lasting effects   |
| Precautionary Statements |  |
| Prevention               | Do not handle until all safety precautions have been read and understood.(P202)  |
| Precautionary Statements | Keep away from heat, sparks, open flames and hot surfaces. No smoking.(P210)<br>Keep container tightly closed.(P233)<br>Avoid breathing gas.(P261)<br>Avoid breathing mist, vapours and spray.(P261)<br>Avoid breathing dust and fume.(P261)<br>Wash eye thoroughly after handling.(P264)<br>Wash hand thoroughly after handling.(P264)<br>Use only outdoors or in a well-ventilated area.(P271) |
| Response                 | Wear protective gloves, eye protection and face protection.(P280)  |
| Precautionary Statements | IF ON SKIN: Wash with plenty of soap and water.(P302+P352)<br><br>If skin irritation or rash occurs, get medical advice and attention.(P333+P313)<br>IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.(P304+P340)  |
|                          | Get medical advice and attention if you feel unwell.(P314)<br>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.(P305+P351+P338)   |
| Storage                  | If eye irritation persists: Get medical advice and attention.(P337+P313)   |
| Precautionary Statements | Store in a well-ventilated place keeping container tightly closed.(P403+P233)<br><br>Store locked up.(P405)  |
| Disposal                 | Dispose of contents and container in accordance with local, regional and national regulations (to be specified).(P501)   |
| Precautionary Statements |  |

## Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Distinction of Substance or

Mixture

Mixture

| Chemical Name or Generic Name | Concentration or Its Ranges | Formula | ENCs No./ISHL No. |          | CAS RN |
|-------------------------------|-----------------------------|---------|-------------------|----------|--------|
|                               |                             |         | ENCs No.          | ISHL No. |        |

|   |        |       |                     |          |            |
|---|--------|-------|---------------------|----------|------------|
| Propyleneglycol monomethylether acetate | 60%    |       | (2)-3144            | Existing | 108-65-6   |
| Ethylcyclohexane                        | 10.4%  | C8H16 | (3)-2231            | Existing | 1678-91-7  |
| Titanium dioxide                        | 11.25% | TiO2  | (1)-558<br>(5)-5225 | Existing | 13463-67-7 |
| Nitrocellulose                          | 3.11%  |       | (8)-176             | Existing | 9004-70-0  |

Impurities and/or  
Stabilizing Additives which  
Contribute to the  
Classification

No information available

#### Section 4 - FIRST AID MEASURES

Inhalation

Remove person to fresh air and keep comfortable for breathing.

Get medical advice and attention if you feel unwell.

Skin Contact

Wash with plenty of soap and water.

If skin irritation or rash occurs, get medical advice and attention.

Get medical advice and attention if you feel unwell.

Eye Contact

Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do.

Continue rinsing.

When the ocular stimulation lasts, Seek medical treatment and advice.

Ingestion

Rinse mouth. Do NOT induce vomiting.

Get medical advice and attention if you feel unwell.

#### Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media

Dry chemicals, CO2, water spray or regular foam.

Unsuitable Extinguishing  
Media

Straight streams.

Protection of Fire Fighter

In fire fighting, wear respiratory protection and chemical protective clothing.

#### Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions,  
Protective Equipment and  
Emergency Procedures

Wear appropriate personal protective equipment (Refer to "Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION") and avoid inhalation or contact with eyes and skin.

Environmental Precautions

Do not release into the environment.

Pay attention not to cause the influence on the environment by discharging into rivers.

Methods and Equipment  
for Containment and  
Cleaning up

This product is water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.

Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container.

Vacuum or sweep up material and place in a disposal container.

Remove from water surface by skimming or with suitable absorbents. Do not use dispersants.

Prevention Measures for  
Secondary Accidents

Allow material to solidify, and scrape up.  
After removal, flush contaminated area thoroughly with water.

Removes all ignition sources promptly. (Prohibition of smoking, sparks, and flames in the surrounding area).

Prevent flowing into drain, sewage, basement, and closed area.

Remove thoroughly since the smooth and slippery surface will be formed on the floor.

## Section 7 - HANDLING AND STORAGE

### Handling

#### Technical Measures

Provide ventilation system and use necessary personal protective equipment as described in "Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION".

#### Precautions for Safe Handling

Do not handle until all safety precautions have been read and understood.

Prohibit use of heat, sparks, and fire in the surrounding area.

Wash hand thoroughly after handling.

Avoid contact with eyes.

Use exhaust ventilation.

Avoid breathing dust and fume.

Avoid breathing gas.

Avoid breathing mist, vapours and spray.

Handle at a well-ventilated place.

Protect from high temperature and direct sunlight.

#### Prevents Handling of Incompatible Substances or Mixtures

Refer to "Section 10 - STABILITY AND REACTIVITY".

|                                  |                                       |  |
|----------------------------------|---------------------------------------|--|
| Storage Precautionary Statements | Specific Hygiene Measures             | Wash hand thoroughly after handling.   |
|                                  | Conditions for Safe Storage           | <p>The storage facility should be designed with fire-proof construction and beams should use a non-combustible material.</p> <p>The roof of a storage facility should be made of a non-combustible material and use metals or other lightweight non-combustible materials. No ceiling should be installed.</p> <p>The storage floor should be protected from water penetration, or should have water-proof construction.</p> <p>The storage floor should have penetration-proof construction against dangerous goods and be inclined adequately. A proper sump should be provided to catch any spills.</p> <p>The storage facility should be provided with necessary lighting, lighting equipment, and ventilator to store and handle dangerous goods.</p> <p>Refer to "Section 10 - STABILITY AND REACTIVITY".</p> <p>Keep away from heat, sparks, open flames and hot surfaces. No smoking.</p> <p>Have containers keep away from direct sunlight and heat.</p> <p>Store in a well-ventilated and cool place keeping container tightly closed.</p> <p>Store locked up.</p> |
|                                  | Material Used in Packaging/Containers | Use containers prescribed in the "Fire Service Law (Japan)" and the "UN Transport Regulations".  |

## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

|                               |                          |   |
|-------------------------------|--------------------------|---|
| Personal Protective Equipment | Engineering Controls     | <p>Use explosion-proof electrical, ventilating and lighting equipment.</p> <p>Good general ventilation should be sufficient to control airborne levels.</p> |
|                               | Respiratory Protection   | Use personal respiratory equipment as required.   |
|                               | Hand Protection          | Wear protective gloves.   |
|                               | Eye Protection           | Wear eye protection.  |
|                               |                          | Protection glasses (ordinary glasses, ordinary glasses with side shields, and goggles).   |
|                               | Skin and Body Protection | Wear face protection.   |
|                               |                          | Use personal protective clothing and face protection as required.   |

## Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

|  |                |                       |
|--|----------------|-----------------------|
| Appearance                               | Physical State | liquid                |
|  | Form           | liquid                |
|  | Colour         | violet                |
| Odour                                    |                | characteristic        |
| Odour threshold                          |                | No data available     |
| pH                                       |                | No data available     |
| Melting Point/Freezing Point             |                | No data available     |
| Initial Boiling Point and Boiling Ranges |                | No data available     |
| Flash Point                              |                | 24°C (Tag Closed Cup) |
| Evaporation Rate                         |                | No data available     |
| Flammability (solid, gas)                |                | No data available     |
| Flammability or Explosive Limits         | Lower Limit    | No data available     |
|  | Upper Limit    | No data available     |
| Vapour Pressure                          |                | No data available     |
| Vapour Density                           |                | No data available     |
| Specific Gravity (Density)               |                | No data available     |
| Partition Coefficient : n-Octanol/Water  |                | No data available     |
| Auto-Ignition Temperature                |                | No data available     |
| Decomposition Temperature                |                | No data available     |
| Viscosity                                |                | No data available     |
| Kinematic viscosity                      |                | No data available     |

#### Section 10 - STABILITY AND REACTIVITY

|                                     |                   |
|-------------------------------------|-------------------|
| Reactivity                          | No data available |
| Chemical stability                  | No data available |
| Possibility of Hazardous Reaction   | No data available |
| Conditions to Avoid                 | No data available |
| Incompatible Substances or Mixtures | No data available |
| Hazardous Decomposition Products    | No data available |

#### Section 11 - TOXICOLOGICAL INFORMATION

|                                   |                          |
|-----------------------------------|--------------------------|
| Acute Toxicity                    | No information available |
| Skin Corrosion/Irritation         | No data available        |
| Serious eye damage/eye irritation | No data available        |
| Respiratory or Skin Sensitization | No data available        |

|  |                   |
|--|-------------------|
| Germ Cell Mutagenicity                           | No data available |
| Carcinogenicity                                  | No data available |
| Reproductive Toxicity                            | No data available |
| Specific target organ toxicity (single exposure) | No data available |

|  |                   |
|--|-------------------|
| Specific target organ toxicity (repeated exposure) | No data available |
| Aspiration Hazard                                  | No data available |

## Section 12 - ECOLOGICAL INFORMATION

|  |                   |
|--|-------------------|
| Hazardous to the aquatic environment (acute) | No data available |
|--|-------------------|

|  |                   |
|--|-------------------|
| Hazardous to the aquatic environment (long-term) | No data available |
|--|-------------------|

|                              |                   |
|------------------------------|-------------------|
| Hazardous to the ozone layer | No data available |
|------------------------------|-------------------|

## Section 13 - DISPOSAL CONSIDERATIONS

|                |   |
|----------------|---|
| Residual Waste | <p>Disposal should be in accordance with applicable regulations and standards by the respective local governments.</p> <p>Commission a waste disposal company, or a local public body who are licensed by local or regional government, to dispose of the material.</p> |
|----------------|---|

|  |   |
|--|---|
|  | <p>When commissioning the disposal to a disposal company, notify the danger and toxicity thoroughly to the company.</p> |
|--|---|

|  |  |
|--|--|
|  | <p>Do not release waste liquid containing the product and used water for cleansing into rivers, etc., or do not discharge the concerned wastes intact for reclamation.</p> |
|--|--|

|                                      |   |
|--------------------------------------|---|
| Contaminated Container and Packaging | <p>Recycle containers after cleansing, or carry out the disposal under the related laws and regulations and the standards of the local governments.</p> |
|--------------------------------------|---|

|  |  |
|--|--|
|  | <p>In case of disposal of empty containers, remove the content thoroughly.</p> |
|--|--|

## Section 14 - TRANSPORT INFORMATION

|                           |                               |                                   |
|---------------------------|-------------------------------|-----------------------------------|
| International Regulations | Regulatory Information by Sea | Conform to the provisions of IMO. |
|                           | UN No.                        | 1263                              |
|                           | Proper Shipping Name          | PAINT RELATED MATERIAL            |

|                                 |   |   |
|---------------------------------|---|---|
| Regulations in Japan            | Class   | 3   |
|                                 | Packing Group   | III   |
|                                 | Marine Pollutant  | Not applicable  |
|                                 | Transport in bulk according to MARPOL 73/78, Annex II ,and the IBC code | Not applicable  |
|                                 | Regulatory Information by Air   | Conform to the provisions of ICAO/IATA.                 |
|                                 | UN No.  | 1263  |
|                                 | Proper Shipping Name  | PAINT RELATED MATERIAL                                  |
|                                 | Class   | 3   |
|                                 | Packing Group   | III   |
|                                 | Regulatory Information by Road or Rail                                  | Not applicable  |
|                                 | Regulatory Information by Sea   | Conform to the provisions of the Ship Safety Law.       |
|                                 | UN No.  | 1263  |
|                                 | Proper Shipping Name.   | PAINT RELATED MATERIAL                                  |
|                                 | Class   | 3   |
|                                 | Packing Group   | III   |
| Emergency Response Guide Number | Marine Pollutant  | Not applicable  |
|                                 | Transport in bulk according to MARPOL 73/78, Annex II ,and the IBC code | Not applicable  |
|                                 | Regulatory Information by Air   | Conform to the provisions of the Civil Aeronautics Law. |
|                                 | UN No.  | 1263  |
|                                 | Proper Shipping Name.   | PAINT RELATED MATERIAL                                  |
|                                 | Class   | 3   |
|                                 | Packing Group   | III   |
|                                 | Regulatory Information by Road or Rail                                  | Not applicable  |
|                                 | Regulatory Information by Sea   | Conform to the provisions of the Ship Safety Law.       |
|                                 | UN No.  | 1263  |
|                                 | Proper Shipping Name.   | PAINT RELATED MATERIAL                                  |
|                                 | Class   | 3   |
|                                 | Packing Group   | III   |
|                                 | Marine Pollutant  | Not applicable  |
|                                 | Transport in bulk according to MARPOL 73/78, Annex II ,and the IBC code | Not applicable  |

#### Section 15 - REGULATORY INFORMATION

Regulatory information with regard to this product in your country or in your region should be examined by your own responsibility.

#### Section 16 - OTHER INFORMATION

Information Contact No information available

## Other Property

This information is furnished without warranty express or implied.

This information is believed to be accurate to the best knowledge of PENTEL Co., Ltd. but not assumes leagal responsibility for use of or reliance upon this information.

## Safety Data Sheet (SDS)

Preparation Date 2015/09/28

Revision Date 2017/09/04

## Section 1 - CHEMICALS AND COMPANY IDENTIFICATION

|  |   |
|--|---|
| Chemical Identifier                    | OPF8-W  |
| Product Code                           | OPF8W00002                                    |
| Company Name                           | PENTEL CO., LTD.                              |
| Address                                | 7-2,KOAMICHO,NIHONBASHI,CHUO-KU,TOKYO         |
| Company Contact                        | QUALITY ASSURANCE DEPARTMENT I                |
| Phone Number                           | 03-5695-7210                                  |
| Fax Number                             | 03-5645-8204                                  |
| Mail Address                           | hinpo@pentel.co.jp                            |
| Emergency Phone Number                 | 03-5695-7210                                  |
| Australian Co.                         | Pentel Australia Pty Ltd                      |
| Address                                | Unit 4, 12 Mars Road, Lane Cove West NSW 2066 |
| Phone Number                           | 02 9425 4800                                  |
| ABN                                    | 72 008 457 725                                |
| Recommended Use and Restriction on Use | ink   |
|  | MMP20-W、MSP20-W、MWP30-W、MMPINK-W              |

## Section 2 - HAZARDS IDENTIFICATION

## GHS Classification

|                         |   |
|-------------------------|---|
| Physicochemical Hazards | Flammable liquids Category 3  |
| Health Hazards          | Serious eye damage/eye irritation Category 2B<br>Carcinogenicity Category 2<br>Specific target organ toxicity (single exposure) Category 3(narcotic effect,respiratory tract irritation)                        |
| Environmental Hazards   | Hazardous to the aquatic environment (acute) Category 2<br>Hazardous to the aquatic environment (long-term) Category 2<br>Other hazards than mentioned above are Not applicable or Classification not possible. |

## GHS Label Elements

## Symbols



|                   |                                  |
|-------------------|----------------------------------|
| Signal Word       | Warning                          |
| Hazard Statements | H226 Flammable liquid and vapour |

|                          |  |
|--------------------------|--|
|                          | H320 Causes eye irritation<br>H335 May cause respiratory irritation<br>H336 May cause drowsiness and dizziness<br>H351 Suspected of causing cancer<br>H411 Toxic to aquatic life with long lasting effects   |
| Precautionary Statements |  |
| Prevention               | Do not handle until all safety precautions have been read and understood.(P202)  |
| Precautionary Statements | Keep away from heat, sparks, open flames and hot surfaces. No smoking.(P210)<br>Keep container tightly closed.(P233)<br>Avoid breathing gas.(P261)<br>Avoid breathing mist, vapours and spray.(P261)<br>Avoid breathing dust and fume.(P261)<br>Wash eye thoroughly after handling.(P264)<br>Wash hand thoroughly after handling.(P264)<br>Use only outdoors or in a well-ventilated area.(P271) |
| Response                 | Wear protective gloves, eye protection and face protection.(P280)<br>IF ON SKIN: Wash with plenty of soap and water.(P302+P352)  |
| Precautionary Statements | If skin irritation or rash occurs, get medical advice and attention.(P333+P313)<br>IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.(P304+P340)  |
|                          | Get medical advice and attention if you feel unwell.(P314)<br>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.(P305+P351+P338)   |
| Storage                  | If eye irritation persists: Get medical advice and attention.(P337+P313)   |
| Precautionary Statements | Store in a well-ventilated place keeping container tightly closed.(P403+P233)  |
| Disposal                 | Store locked up.(P405)   |
| Precautionary Statements | Dispose of contents and container in accordance with local, regional and national regulations (to be specified).(P501)   |

## Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Distinction of Substance or

Mixture

Mixture

| Chemical Name or Generic | Concentration or Its | Formula | ENCS No./ISHL No. | CAS RN |
|--------------------------|----------------------|---------|-------------------|--------|
|--------------------------|----------------------|---------|-------------------|--------|

| Name                                    | Ranges | Formula                        | ENCS No.            | ISHL No. | CAS No.    |
|---|--------|--------------------------------|---------------------|----------|------------|
| Propyleneglycol monomethylether acetate | 47.5%  |                                | (2)-3144            | Existing | 108-65-6   |
| Ethylcyclohexane                        | 10%    | C <sub>8</sub> H <sub>16</sub> | (3)-2231            | Existing | 1678-91-7  |
| Titanium dioxide                        | 31.88% | TiO <sub>2</sub>               | (1)-558<br>(5)-5225 | Existing | 13463-67-7 |
| Nitrocellulose                          | 4.25%  |                                | (8)-176             | Existing | 9004-70-0  |

Impurities and/or  
Stabilizing Additives which  
Contribute to the  
Classification

No information available

#### Section 4 - FIRST AID MEASURES

Inhalation

Remove person to fresh air and keep comfortable for breathing.

Get medical advice and attention if you feel unwell.

Skin Contact

Wash with plenty of soap and water.

If skin irritation or rash occurs, get medical advice and attention.

Get medical advice and attention if you feel unwell.

Eye Contact

Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do.

Continue rinsing.

When the ocular stimulation lasts, Seek medical treatment and advice.

Ingestion

Rinse mouth. Do NOT induce vomiting.

Get medical advice and attention if you feel unwell.

#### Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media

Dry chemicals, CO<sub>2</sub>, water spray or regular foam.

Unsuitable Extinguishing

Straight streams.

Media

Protection of Fire Fighter

In fire fighting, wear respiratory protection and chemical protective clothing.

#### Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions,  
Protective Equipment and  
Emergency Procedures

Wear appropriate personal protective equipment (Refer to "Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION") and avoid inhalation or contact with eyes and skin.

Environmental Precautions

Do not release into the environment.

Pay attention not to cause the influence on the environment by discharging into rivers.

Methods and Equipment  
for Containment and  
Cleaning up

This product is water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.

Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container.

Vacuum or sweep up material and place in a disposal container.

Remove from water surface by skimming or with suitable absorbents. Do not use dispersants.

Prevention Measures for  
Secondary Accidents

Allow material to solidify, and scrape up.

After removal, flush contaminated area thoroughly with water.

Removes all ignition sources promptly. (Prohibition of smoking, sparks, and flames in the surrounding area).

Prevent flowing into drain, sewage, basement, and closed area.

Remove thoroughly since the smooth and slippery surface will be formed on the floor.

## Section 7 - HANDLING AND STORAGE

### Handling

#### Technical Measures

Provide ventilation system and use necessary personal protective equipment as described in "Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION".

#### Precautions for Safe Handling

Do not handle until all safety precautions have been read and understood.

Prohibit use of heat, sparks, and fire in the surrounding area.

Wash hand thoroughly after handling.

Avoid contact with eyes.

Use exhaust ventilation.

Avoid breathing dust and fume.

Avoid breathing gas.

Avoid breathing mist, vapours and spray.

Handle at a well-ventilated place.

Protect from high temperature and direct sunlight.

#### Prevents Handling of Incompatible Substances or Mixtures

Refer to "Section 10 - STABILITY AND REACTIVITY".

#### Specific Hygiene Measures

Wash hand thoroughly after handling.

|                                  |                                       |  |
|----------------------------------|---------------------------------------|--|
| Storage Precautionary Statements | Conditions for Safe Storage           | <p>The storage facility should be designed with fire-proof construction and beams should use a non-combustible material.</p> <p>The roof of a storage facility should be made of a non-combustible material and use metals or other lightweight non-combustible materials. No ceiling should be installed.</p> <p>The storage floor should be protected from water penetration, or should have water-proof construction.</p> <p>The storage floor should have penetration-proof construction against dangerous goods and be inclined adequately. A proper sump should be provided to catch any spills.</p> <p>The storage facility should be provided with necessary lighting, lighting equipment, and ventilator to store and handle dangerous goods.</p> <p>Refer to "Section 10 - STABILITY AND REACTIVITY".</p> <p>Keep away from heat, sparks, open flames and hot surfaces. No smoking.</p> <p>Have containers keep away from direct sunlight and heat.</p> <p>Store in a well-ventilated and cool place keeping container tightly closed.</p> <p>Store locked up.</p> |
|                                  | Material Used in Packaging/Containers | Use containers prescribed in the "Fire Service Law (Japan)" and the "UN Transport Regulations".  |

## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

|                               |                          |   |
|-------------------------------|--------------------------|---|
| Engineering Controls          |                          | <p>Use explosion-proof electrical, ventilating and lighting equipment.</p> <p>Good general ventilation should be sufficient to control airborne levels.</p> |
| Personal Protective Equipment | Respiratory Protection   | Use personal respiratory equipment as required.   |
|                               | Hand Protection          | Wear protective gloves.   |
|                               | Eye Protection           | Wear eye protection.  |
|                               |                          | Protection glasses (ordinary glasses, ordinary glasses with side shields, and goggles).   |
|                               | Skin and Body Protection | Wear face protection.   |
|                               |                          | Use personal protective clothing and face protection as required.   |

## Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

|                 |                |                   |
|-----------------|----------------|-------------------|
| Appearance      | Physical State | liquid            |
|                 | Form           | liquid            |
|                 | Colour         | white             |
| Odour           |                | characteristic    |
| Odour threshold |                | No data available |

|  |             |                       |
|--|-------------|-----------------------|
| pH                                       |             | No data available     |
| Melting Point/Freezing Point             |             | No data available     |
| Initial Boiling Point and Boiling Ranges |             | No data available     |
| Flash Point                              |             | 24°C (Tag Closed Cup) |
| Evaporation Rate                         |             | No data available     |
| Flammability (solid, gas)                |             | No data available     |
| Flammability or Explosive Limits         | Lower Limit | No data available     |
|  | Upper Limit | No data available     |
| Vapour Pressure                          |             | No data available     |
| Vapour Density                           |             | No data available     |
| Specific Gravity (Density)               |             | No data available     |
| Partition Coefficient : n-Octanol/Water  |             | No data available     |
| Auto-Ignition Temperature                |             | No data available     |
| Decomposition Temperature                |             | No data available     |
| Viscosity                                |             | No data available     |
| Kinematic viscosity                      |             | No data available     |

#### Section 10 - STABILITY AND REACTIVITY

|                                     |                   |
|-------------------------------------|-------------------|
| Reactivity                          | No data available |
| Chemical stability                  | No data available |
| Possibility of Hazardous Reaction   | No data available |
| Conditions to Avoid                 | No data available |
| Incompatible Substances or Mixtures | No data available |
| Hazardous Decomposition Products    | No data available |

#### Section 11 - TOXICOLOGICAL INFORMATION

|  |                          |
|--|--------------------------|
| Acute Toxicity                                   | No information available |
| Skin Corrosion/Irritation                        | No data available        |
| Serious eye damage/eye irritation                | No data available        |
| Respiratory or Skin Sensitization                | No data available        |
| Germ Cell Mutagenicity                           | No data available        |
| Carcinogenicity                                  | No data available        |
| Reproductive Toxicity                            | No data available        |
| Specific target organ toxicity (single exposure) | No data available        |

|  |                   |
|--|-------------------|
| Specific target organ toxicity (repeated exposure) | No data available |
| Aspiration Hazard                                  | No data available |

## Section 12 - ECOLOGICAL INFORMATION

|  |                   |
|--|-------------------|
| Hazardous to the aquatic environment (acute)     | No data available |
| Hazardous to the aquatic environment (long-term) | No data available |
| Hazardous to the ozone layer                     | No data available |

## Section 13 - DISPOSAL CONSIDERATIONS

|                                      |  |
|--------------------------------------|--|
| Residual Waste                       | <p>Disposal should be in accordance with applicable regulations and standards by the respective local governments.</p> <p>Commission a waste disposal company, or a local public body who are licensed by local or regional government, to dispose of the material.</p> <p>When commissioning the disposal to a disposal company, notify the danger and toxicity thoroughly to the company.</p> <p>Do not release waste liquid containing the product and used water for cleansing into rivers, etc., or do not discharge the concerned wastes intact for reclamation.</p> |
| Contaminated Container and Packaging | <p>Recycle containers after cleansing, or carry out the disposal under the related laws and regulations and the standards of the local governments.</p> <p>In case of disposal of empty containers, remove the content thoroughly.</p>   |

## Section 14 - TRANSPORT INFORMATION

|                           |                               |                                   |
|---------------------------|-------------------------------|-----------------------------------|
| International Regulations | Regulatory Information by Sea | Conform to the provisions of IMO. |
|                           | UN No.                        | 1263                              |
|                           | Proper Shipping Name          | PAINT RELATED MATERIAL            |
|                           | Class                         | 3                                 |
|                           | Packing Group                 | III                               |
|                           | Marine Pollutant              | Not applicable                    |

|                                 |   |   |
|---------------------------------|---|---|
|                                 | Transport in bulk according to MARPOL 73/78, Annex II, and the IBC code | Not applicable  |
| Regulations in Japan            | Regulatory Information by Air   | Conform to the provisions of ICAO/IATA.                 |
|                                 | UN No.  | 1263  |
|                                 | Proper Shipping Name  | PAINT RELATED MATERIAL                                  |
|                                 | Class   | 3   |
|                                 | Packing Group   | III   |
|                                 | Regulatory Information by Road or Rail                                  | Not applicable  |
|                                 | Regulatory Information by Sea   | Conform to the provisions of the Ship Safety Law.       |
|                                 | UN No.  | 1263  |
|                                 | Proper Shipping Name.   | PAINT RELATED MATERIAL                                  |
|                                 | Class   | 3   |
|                                 | Packing Group   | III   |
|                                 | Marine Pollutant  | Not applicable  |
| Emergency Response Guide Number | Transport in bulk according to MARPOL 73/78, Annex II, and the IBC code | Not applicable  |
|                                 | Regulatory Information by Air   | Conform to the provisions of the Civil Aeronautics Law. |
|                                 | UN No.  | 1263  |
|                                 | Proper Shipping Name.   | PAINT RELATED MATERIAL                                  |
|                                 | Class   | 3   |
|                                 | Packing Group   | III   |
|                                 |   | 128   |

#### Section 15 - REGULATORY INFORMATION

Regulatory information with regard to this product in your country or in your region should be examined by your own responsibility.

#### Section 16 - OTHER INFORMATION

|                     |  |
|---------------------|--|
| Information Contact | No information available   |
| Other Property      | This information is furnished without warranty express or implied. |

This information is believed to be accurate to the best knowledge of PENTEL Co., Ltd. but not assumes leagal responsibility for use of or reliance upon this information.

## Safety Data Sheet (SDS)

Preparation Date 2011/08/05

Revision Date 2017/09/04

## Section 1 - CHEMICALS AND COMPANY IDENTIFICATION

|  |  |
|--|--|
| Chemical Identifier                    | OPF 6 — X  |
| Product Code                           | OPF6X00001   |
| Company Name                           | PENTEL CO., LTD.   |
| Address                                | 7-2,KOAMICHO,NIHONBASHI,CHUO-KU,TOKYO                        |
| Company Contact                        | QUALITY ASSURANCE DEPARTMENT I                               |
| Phone Number                           | 03-5695-7210   |
| Fax Number                             | 03-5645-8204   |
| Mail Address                           | hinpo@pentel.co.jp   |
| Australian Co.                         | PENTEL AUSTRALIA PTY LTD                                     |
| Address                                | Unit 4, 12 Mars Road, Lane Cove West NSW 2066                |
| Company Contact                        | Customer Service   |
| Mail Address                           | <a href="mailto:sales@pentel.com.au">sales@pentel.com.au</a> |
| Emergency Phone Number                 | 02 9425 4800   |
| Recommended Use and Restriction on Use | ink<br><br>MMP20-X, MSP20-X, MWP30-X                         |

## Section 2 - HAZARDS IDENTIFICATION

## GHS Classification

|                         |   |
|-------------------------|---|
| Physicochemical Hazards | Flammable liquids Category 2  |
| Health Hazards          | Skin corrosion/irritation Category 2<br>Serious eye damage/eye irritation Category 2A<br>Sensitization - skin Category 1A<br>Specific target organ toxicity (single exposure) Category 1(digestive organs)<br>Specific target organ toxicity (single exposure) Category 3(narcotic effect,respiratory tract irritation) |
| Environmental Hazards   | Specific target organ toxicity (repeated exposure)<br>Hazardous to the aquatic environment (acute) Category 1<br>Hazardous to the aquatic environment (long-term) Category 1<br>Other hazards than mentioned above are Not applicable or Classification not possible.   |

## GHS Label Elements

## Symbols





|                          |  |
|--------------------------|--|
| Signal Word              | Danger   |
| Hazard Statements        | <p>H315 Causes skin irritation</p> <p>H317 May cause an allergic skin reaction</p> <p>H319 Causes serious eye irritation</p> <p>H370 Causes damage to digestive organs</p> <p>H410 Very toxic to aquatic life with long lasting effects</p> <p>H225 Highly flammable liquid and vapour</p> <p>H335 May cause respiratory irritation</p> <p>H336 May cause drowsiness and dizziness</p> <p>H372 Causes damage to nervous system through prolonged or repeated exposure</p>  |
| Precautionary Statements |  |
| Prevention               | Do not handle until all safety precautions have been read and understood.(P202)  |
| Precautionary Statements | <p>Keep away from heat, sparks, open flames and hot surfaces. No smoking.(P210)</p> <p>Keep container tightly closed.(P233)</p> <p>Avoid breathing gas.(P261)</p> <p>Avoid breathing mist, vapours and spray.(P261)</p> <p>Avoid breathing dust and fume.(P261)</p> <p>Wash eye thoroughly after handling.(P264)</p> <p>Wash hand thoroughly after handling.(P264)</p> <p>Use only non-sparking tools.(P242)</p> <p>Do not eat, drink or smoke when using this product.(P270)</p> <p>Use only outdoors or in a well-ventilated area.(P271)</p> |
| Response                 | <p>Wear protective gloves.(P280)</p> <p>Wear eye protection and face protection.(P280)</p> <p>IF ON SKIN: Wash with plenty of soap and water.(P302+P352)</p>   |
| Precautionary Statements | <p>If skin irritation or rash occurs, get medical advice and attention.(P333+P313)</p> <p>IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.(P304+P340)</p>   |
|                          | <p>Get medical advice and attention if you feel unwell.(P314)</p> <p>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.(P305+P351+P338)</p>  |

|   |  |
|---|--|
| Storage<br>Precautionary<br>Statements  | If eye irritation persists: Get medical advice and attention.(P337+P313)   |
|   | Store in a well-ventilated place keeping container tightly closed.(P403+P233)  |
| Disposal<br>Precautionary<br>Statements | Store locked up.(P405)   |
|   | Dispose of contents and container in accordance with local, regional and national regulations (to be specified).(P501) |

## Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Distinction of Substance or  
Mixture

Mixture

| Chemical Name or Generic Name           | Concentration or Its Ranges | Formula   | ENCS No./ISHL No. |          | CAS RN    |
|---|-----------------------------|---|-------------------|----------|-----------|
|   |                             |   | ENCS No.          | ISHL No. |           |
| Propyleneglycol monomethylether acetate | 25%                         |   | (2)-3144          | Existing | 108-65-6  |
| Heptane                                 | 13%                         | CH <sub>3</sub> (CH <sub>2</sub> ) <sub>5</sub> CH <sub>3</sub> | (2)-7             | Existing | 142-82-5  |
| Methylcyclohexane                       | 14%                         | C <sub>7</sub> H <sub>14</sub>                                  | (3)-2230          | Existing | 108-87-2  |
| Copper                                  | 25.5%                       | Cu  | Unknown           | Unknown  | 7440-50-8 |

Impurities and/or  
Stabilizing Additives which  
Contribute to the  
Classification

No information available

## Section 4 - FIRST AID MEASURES

Inhalation

Remove person to fresh air and keep comfortable for breathing.

Get medical advice and attention if you feel unwell.

Skin Contact

Wash with plenty of soap and water.

If skin irritation or rash occurs, get medical advice and attention.

Get medical advice and attention if you feel unwell.

Eye Contact

Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do.

Continue rinsing.

When the ocular stimulation lasts, Seek medical treatment and advice.

Ingestion

Rinse mouth. Do NOT induce vomiting.

Get medical advice and attention if you feel unwell.

## Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media

Dry chemicals, CO<sub>2</sub>, water spray or regular foam.

Unsuitable Extinguishing  
Media  
Protection of Fire Fighter

Straight streams.

In fire fighting, wear respiratory protection and chemical protective clothing.

## Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions,  
Protective Equipment and  
Emergency Procedures

Wear appropriate personal protective equipment (Refer to "Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION") and avoid inhalation or contact with eyes and skin.

Environmental Precautions

Do not release into the environment.

Pay attention not to cause the influence on the environment by discharging into rivers.

This product is water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.

Methods and Equipment  
for Containment and  
Cleaning up

Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container.

Vacuum or sweep up material and place in a disposal container.

Remove from water surface by skimming or with suitable absorbents. Do not use dispersants.

Allow material to solidify, and scrape up.

After removal, flush contaminated area thoroughly with water.

Prevention Measures for  
Secondary Accidents

Removes all ignition sources promptly. (Prohibition of smoking, sparks, and flames in the surrounding area).

Prevent flowing into drain, sewage, basement, and closed area.

Remove thoroughly since the smooth and slippery surface will be formed on the floor.

## Section 7 - HANDLING AND STORAGE

Handling

Technical Measures

Provide ventilation system and use necessary personal protective equipment as described in "Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION".

Precautions for Safe  
Handling

Do not handle until all safety precautions have been read and understood.

|                                  |  |  |
|----------------------------------|--|--|
|                                  |  | <p>Prohibit use of heat, sparks, and fire in the surrounding area.</p> <p>Do not eat, drink or smoke when using this product.</p> <p>Wash hand thoroughly after handling.</p> <p>Avoid contact with eyes.</p> <p>Use exhaust ventilation.</p> <p>Avoid breathing dust and fume.</p> <p>Avoid breathing gas.</p> <p>Avoid breathing mist, vapours and spray.</p> <p>Handle at a well-ventilated place.</p> <p>Protect from high temperature and direct sunlight.</p>  |
| Storage Precautionary Statements | Prevents Handling of Incompatible Substances or Mixtures | Refer to "Section 10 - STABILITY AND REACTIVITY".  |
|                                  | Specific Hygiene Measures                                | Wash hand thoroughly after handling.   |
|                                  | Conditions for Safe Storage                              | <p>The storage facility should be designed with fire-proof construction and beams should use a non-combustible material.</p> <p>The roof of a storage facility should be made of a non-combustible material and use metals or other lightweight non-combustible materials. No ceiling should be installed.</p> <p>The storage floor should be protected from water penetration, or should have water-proof construction.</p> <p>The storage floor should have penetration-proof construction against dangerous goods and be inclined adequately. A proper sump should be provided to catch any spills.</p> <p>The storage facility should be provided with necessary lighting, lighting equipment, and ventilator to store and handle dangerous goods.</p> <p>Refer to "Section 10 - STABILITY AND REACTIVITY".</p> <p>Keep away from heat, sparks, open flames and hot surfaces. No smoking.</p> <p>Have containers keep away from direct sunlight and heat.</p> <p>Store in a well-ventilated and cool place keeping container tightly closed.</p> <p>Store locked up.</p> |
|                                  | Material Used in Packaging/Containers                    | Use containers prescribed in the "Fire Service Law (Japan)" and the "UN Transport Regulations".  |

## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

|                               |                          |   |
|-------------------------------|--------------------------|---|
| Engineering Controls          |                          | Use explosion-proof electrical, ventilating and lighting equipment.<br>Take precautionary measures against static discharge.<br>Good general ventilation should be sufficient to control airborne levels. |
| Personal Protective Equipment | Respiratory Protection   | Use personal respiratory equipment as required.   |
|                               | Hand Protection          | Wear protective gloves.   |
|                               | Eye Protection           | Wear eye protection.<br>Protection glasses (ordinary glasses, ordinary glasses with side shields, and goggles).   |
|                               | Skin and Body Protection | Wear face protection.<br><br>Use personal protective clothing and face protection as required.  |

## Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

|  |                |                          |
|--|----------------|--------------------------|
| Appearance                               | Physical State | liquid                   |
|  | Form           | liquid                   |
|  | Colour         | gold                     |
| Odour                                    |                | aromatic                 |
| Odour threshold                          |                | No data available        |
| pH                                       |                | No data available        |
| Melting Point/Freezing Point             |                | No data available        |
| Initial Boiling Point and Boiling Ranges |                | No data available        |
| Flash Point                              |                | -10.5°C (Tag Closed Cup) |
| Evaporation Rate                         |                | No data available        |
| Flammability (solid, gas)                |                | No data available        |
| Flammability or Explosive Limits         | Lower Limit    | No data available        |
|  | Upper Limit    | No data available        |
| Vapour Pressure                          |                | No data available        |
| Vapour Density                           |                | No data available        |
| Specific Gravity (Density)               |                | No data available        |
| Partition Coefficient : n-Octanol/Water  |                | No data available        |
| Auto-Ignition Temperature                |                | No data available        |
| Decomposition Temperature                |                | No data available        |
| Viscosity                                |                | No data available        |
| Kinematic viscosity                      |                | No data available        |

**Section 10 - STABILITY AND REACTIVITY**

|                                     |                   |
|-------------------------------------|-------------------|
| Reactivity                          | No data available |
| Chemical stability                  | No data available |
| Possibility of Hazardous Reaction   | No data available |
| Conditions to Avoid                 | No data available |
| Incompatible Substances or Mixtures | No data available |
| Hazardous Decomposition Products    | No data available |

**Section 11 - TOXICOLOGICAL INFORMATION**

|  |                          |
|--|--------------------------|
| Acute Toxicity                                     | No information available |
| Skin Corrosion/Irritation                          | No data available        |
| Serious eye damage/eye irritation                  | No data available        |
| Respiratory or Skin Sensitization                  | No data available        |
| Germ Cell Mutagenicity                             | No data available        |
| Carcinogenicity                                    | No data available        |
| Reproductive Toxicity                              | No data available        |
| Specific target organ toxicity (single exposure)   | No data available        |
| Specific target organ toxicity (repeated exposure) | No data available        |
| Aspiration Hazard                                  | No data available        |

**Section 12 - ECOLOGICAL INFORMATION**

|  |                   |
|--|-------------------|
| Hazardous to the aquatic environment (acute)     | No data available |
| Hazardous to the aquatic environment (long-term) | No data available |
| Hazardous to the ozone layer                     | No data available |

**Section 13 - DISPOSAL CONSIDERATIONS**

|                |   |
|----------------|---|
| Residual Waste | <p>Disposal should be in accordance with applicable regulations and standards by the respective local governments.</p> <p>Commission a waste disposal company, or a local public body who are licensed by local or regional government, to dispose of the material.</p> |
|----------------|---|

|   |   |
|---|---|
| Contaminated Container<br>and Packaging | When commissioning the disposal to a disposal company, notify the danger and toxicity thoroughly to the company.  |
|   | Do not release waste liquid containing the product and used water for cleansing into rivers, etc., or do not discharge the concerned wastes intact for reclamation. |
|   | Recycle containers after cleansing, or carry out the disposal under the related laws and regulations and the standards of the local governments.                    |
|   | In case of disposal of empty containers, remove the content thoroughly.   |

## Section 14 - TRANSPORT INFORMATION

|                           |   |   |
|---------------------------|---|---|
| International Regulations | Regulatory Information by Sea   | Conform to the provisions of IMO.                 |
|                           | UN No.  | 1263  |
|                           | Proper Shipping Name  | PAINT   |
|                           | Class   | 3   |
|                           | Packing Group   | II  |
|                           | Marine Pollutant  | Not applicable                                    |
|                           | Transport in bulk according to MARPOL 73/78, Annex II, and the IBC code | Not applicable                                    |
|                           | Regulatory Information by Air   | Conform to the provisions of ICAO/IATA.           |
|                           | UN No.  | 1263  |
|                           | Proper Shipping Name  | PAINT   |
|                           | Class   | 3   |
|                           | Packing Group   | II  |
|                           | Regulatory Information by Road or Rail                                  | Not applicable                                    |
|                           | Regulatory Information by Sea   | Conform to the provisions of the Ship Safety Law. |
| Regulations in Japan      | UN No.  | 1263  |
|                           | Proper Shipping Name.   | PAINT   |
|                           | Class   | 3   |
|                           | Packing Group   | II  |
|                           | Marine Pollutant  | Not applicable                                    |

|   |                |
|---|----------------|
| Transport in bulk<br>according to MARPOL<br>73/78,Annex II ,and<br>the IBC code | Not applicable |
|---|----------------|

|  |  |
|--|--|
| Regulatory<br>Information by Air<br>UN No.<br>Proper Shipping<br>Name.<br>Class<br>Packing Group | Conform to the provisions of the Civil Aeronautics<br>Law.<br>1263<br>PAINT<br><br>3<br>II |
| Emergency Response<br>Guide Number   | Not applicable   |

#### Section 15 - REGULATORY INFORMATION

Regulatory information with regard to this product in your country or in your region should be examined by your own responsibility.

#### Section 16 - OTHER INFORMATION

|                     |   |
|---------------------|---|
| Information Contact | No information available  |
| Other Property      | This information is furnished without warranty<br>express or implied.<br>This information is believed to be accurate to the<br>best knowledge of PENTEL Co., Ltd. but not assumes<br>leagal responsibility for use of or reliance upon this<br>information. |

## Safety Data Sheet (SDS)

Preparation Date 2011/08/05

Revision Date 2017/09/04

## Section 1 - CHEMICALS AND COMPANY IDENTIFICATION

|  |  |
|--|--|
| Chemical Identifier                    | OPF 6 — Z  |
| Product Code                           | OPF6Z00001   |
| Company Name                           | PENTEL CO., LTD.   |
| Address                                | 7-2,KOAMICHO,NIHONBASHI,CHUO-KU,TOKYO                        |
| Company Contact                        | QUALITY ASSURANCE DEPARTMENT I                               |
| Phone Number                           | 03-5695-7210   |
| Fax Number                             | 03-5645-8204   |
| Mail Address                           | hinpo@pentel.co.jp   |
| Australian Co.                         | PENTEL AUSTRALIA PTY LTD                                     |
| Address                                | Unit 4, 12 Mars Road, Lane Cove West NSW 2066                |
| Company Contact                        | Customer Service   |
| Mail Address                           | <a href="mailto:sales@pentel.com.au">sales@pentel.com.au</a> |
| Emergency Phone Number                 | 02 9425 4800   |
| Recommended Use and Restriction on Use | ink<br><br>MMP20-Z, MSP20-Z, MWP30-Z                         |

## Section 2 - HAZARDS IDENTIFICATION

## GHS Classification

|                         |   |
|-------------------------|---|
| Physicochemical Hazards | Flammable liquids Category 2  |
| Health Hazards          | Acute toxicity (oral) Category 4<br>Acute toxicity (Inhalation: vapour) Category 3<br>Skin corrosion/irritation Category 2<br>Serious eye damage/eye irritation Category 2A<br>Specific target organ toxicity (single exposure) Category 3(narcotic effect)<br>Specific target organ toxicity (repeated exposure) Category 1(lung)<br>Specific target organ toxicity (repeated exposure) Category 2(nervous system) |
| Environmental Hazards   | Hazardous to the aquatic environment (acute) Category 1<br>Hazardous to the aquatic environment (long-term) Category 1<br>Other hazards than mentioned above are Not applicable or Classification not possible.   |

## GHS Label Elements

## Symbols





|                          |  |
|--------------------------|--|
| Signal Word              | Danger   |
| Hazard Statements        | <p>H315 Causes skin irritation</p> <p>H319 Causes serious eye irritation</p> <p>H331 Toxic if inhaled</p> <p>H373 May cause damage to nervous system through prolonged or repeated exposure</p> <p>H410 Very toxic to aquatic life with long lasting effects</p> <p>H225 Highly flammable liquid and vapour</p> <p>H302 Harmful if swallowed</p> <p>H336 May cause drowsiness and dizziness</p> <p>H372 Causes damage to lung through prolonged or repeated exposure</p>   |
| Precautionary Statements |  |
| Prevention               | Do not handle until all safety precautions have been read and understood.(P202)  |
| Precautionary Statements | <p>Keep away from heat, sparks, open flames and hot surfaces. No smoking.(P210)</p> <p>Keep container tightly closed.(P233)</p> <p>Avoid breathing gas.(P261)</p> <p>Avoid breathing mist, vapours and spray.(P261)</p> <p>Avoid breathing dust and fume.(P261)</p> <p>Wash eye thoroughly after handling.(P264)</p> <p>Wash hand thoroughly after handling.(P264)</p> <p>Use only non-sparking tools.(P242)</p> <p>Do not eat, drink or smoke when using this product.(P270)</p> <p>Use only outdoors or in a well-ventilated area.(P271)</p> |
| Response                 | <p>Wear protective gloves.(P280)</p> <p>Wear eye protection and face protection.(P280)</p> <p>IF ON SKIN: Wash with plenty of soap and water.(P302+P352)</p>   |
| Precautionary Statements | <p>If skin irritation or rash occurs, get medical advice and attention.(P333+P313)</p> <p>IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.(P304+P340)</p>   |
|                          | <p>Get medical advice and attention if you feel unwell.(P314)</p>  |

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.(P305+P351+P338)

If eye irritation persists: Get medical advice and attention.(P337+P313)

Storage  
Precautionary  
Statements

Store in a well-ventilated place keeping container tightly closed.(P403+P233)

Disposal  
Precautionary  
Statements

Store locked up.(P405)

Dispose of contents and container in accordance with local, regional and national regulations (to be specified).(P501)

### Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Distinction of Substance or  
Mixture

Mixture

| Chemical Name or Generic Name | Concentration or Its Ranges | Formula   | ENCS No./ISHL No.    |          | CAS RN    |
|-------------------------------|-----------------------------|---|----------------------|----------|-----------|
|                               |                             |   | ENCS No.             | ISHL No. |           |
| Heptane                       | 5%                          | CH <sub>3</sub> (CH <sub>2</sub> ) <sub>5</sub> CH <sub>3</sub>     | (2)-7                | Existing | 142-82-5  |
| Methylcyclohexane             | 45%                         | C <sub>7</sub> H <sub>14</sub>                                      | (3)-2230             | Existing | 108-87-2  |
| Ethylcyclohexane              | 5%                          | C <sub>8</sub> H <sub>16</sub>                                      | (3)-2231             | Existing | 1678-91-7 |
| Tributyl phosphate            | 5%                          | [CH <sub>3</sub> (CH <sub>2</sub> ) <sub>3</sub> O] <sub>3</sub> PO | (2)-2000<br>(2)-2021 | Existing | 126-73-8  |
| Aluminum                      | 10.9%                       | Al  | Unknown              | Unknown  | 7429-90-5 |

Impurities and/or  
Stabilizing Additives which  
Contribute to the  
Classification

No information available

### Section 4 - FIRST AID MEASURES

Inhalation

Remove person to fresh air and keep comfortable for breathing.

Get medical advice and attention if you feel unwell.

Skin Contact

Wash with plenty of soap and water.

If skin irritation or rash occurs, get medical advice and attention.

Get medical advice and attention if you feel unwell.

Eye Contact

Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

When the ocular stimulation lasts, Seek medical treatment and advice.

Ingestion

Rinse mouth. Do NOT induce vomiting.

Get medical advice and attention if you feel unwell.

## Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media Dry chemicals, CO2, water spray or regular foam.

Unsuitable Extinguishing Media Straight streams.

Protection of Fire Fighter In fire fighting, wear respiratory protection and chemical protective clothing.

## Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures Wear appropriate personal protective equipment (Refer to "Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION") and avoid inhalation or contact with eyes and skin.

Environmental Precautions Do not release into the environment.

Pay attention not to cause the influence on the environment by discharging into rivers.  
This product is water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.

Methods and Equipment for Containment and Cleaning up Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container.

Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

Vacuum or sweep up material and place in a disposal container.  
Remove from water surface by skimming or with suitable absorbents. Do not use dispersants.

Allow material to solidify, and scrape up.  
After removal, flush contaminated area thoroughly with water.

Prevention Measures for Secondary Accidents Removes all ignition sources promptly. (Prohibition of smoking, sparks, and flames in the surrounding area).  
Prevent flowing into drain, sewage, basement, and closed area.  
Remove thoroughly since the smooth and slippery surface will be formed on the floor.

## Section 7 - HANDLING AND STORAGE

Handling Technical Measures Provide ventilation system and use necessary personal protective equipment as described in "Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION".

|                                  |  |  |
|----------------------------------|--|--|
| Storage Precautionary Statements | Precautions for Safe Handling                            | <p>Do not handle until all safety precautions have been read and understood.</p> <p>Prohibit use of heat, sparks, and fire in the surrounding area.</p> <p>Do not eat, drink or smoke when using this product.</p> <p>Wash hand thoroughly after handling.</p> <p>Avoid contact with eyes.</p> <p>Use exhaust ventilation.</p> <p>Avoid breathing dust and fume.</p> <p>Avoid breathing gas.</p> <p>Avoid breathing mist, vapours and spray.</p> <p>Handle at a well-ventilated place.</p> <p>Protect from high temperature and direct sunlight.</p>   |
|                                  | Prevents Handling of Incompatible Substances or Mixtures | Refer to "Section 10 - STABILITY AND REACTIVITY".  |
|                                  | Specific Hygiene Measures                                | Wash hand thoroughly after handling.   |
|                                  | Conditions for Safe Storage                              | <p>The storage facility should be designed with fire-proof construction and beams should use a non-combustible material.</p> <p>The roof of a storage facility should be made of a non-combustible material and use metals or other lightweight non-combustible materials. No ceiling should be installed.</p> <p>The storage floor should be protected from water penetration, or should have water-proof construction.</p> <p>The storage floor should have penetration-proof construction against dangerous goods and be inclined adequately. A proper sump should be provided to catch any spills.</p> <p>The storage facility should be provided with necessary lighting, lighting equipment, and ventilator to store and handle dangerous goods.</p> <p>Refer to "Section 10 - STABILITY AND REACTIVITY".</p> <p>Keep away from heat, sparks, open flames and hot surfaces. No smoking.</p> <p>Have containers keep away from direct sunlight and heat.</p> <p>Store in a well-ventilated and cool place keeping container tightly closed.</p> <p>Store locked up.</p> |
|                                  | Material Used in Packaging/Containers                    | Use containers prescribed in the "Fire Service Law (Japan)" and the "UN Transport Regulations".  |

## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

|                               |                          |   |
|-------------------------------|--------------------------|---|
| Engineering Controls          |                          | Use explosion-proof electrical, ventilating and lighting equipment.<br>Take precautionary measures against static discharge.<br>Good general ventilation should be sufficient to control airborne levels. |
| Personal Protective Equipment | Respiratory Protection   | Use personal respiratory equipment as required.   |
|                               | Hand Protection          | Wear protective gloves.   |
|                               | Eye Protection           | Wear eye protection.<br>Protection glasses (ordinary glasses, ordinary glasses with side shields, and goggles).   |
|                               | Skin and Body Protection | Wear face protection.<br><br>Use personal protective clothing and face protection as required.  |

## Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

|  |                |                         |
|--|----------------|-------------------------|
| Appearance                               | Physical State | liquid                  |
|  | Form           | liquid                  |
|  | Colour         | silver                  |
| Odour                                    |                | aromatic                |
| Odour threshold                          |                | No data available       |
| pH                                       |                | No data available       |
| Melting Point/Freezing Point             |                | No data available       |
| Initial Boiling Point and Boiling Ranges |                | No data available       |
| Flash Point                              |                | -4.5°C (Tag Closed Cup) |
| Evaporation Rate                         |                | No data available       |
| Flammability (solid, gas)                |                | No data available       |
| Flammability or Explosive Limits         | Lower Limit    | No data available       |
|  | Upper Limit    | No data available       |
| Vapour Pressure                          |                | No data available       |
| Vapour Density                           |                | No data available       |
| Specific Gravity (Density)               |                | No data available       |
| Partition Coefficient : n-Octanol/Water  |                | No data available       |
| Auto-Ignition Temperature                |                | No data available       |
| Decomposition Temperature                |                | No data available       |
| Viscosity                                |                | No data available       |
| Kinematic viscosity                      |                | No data available       |

**Section 10 - STABILITY AND REACTIVITY**

|                                     |                   |
|-------------------------------------|-------------------|
| Reactivity                          | No data available |
| Chemical stability                  | No data available |
| Possibility of Hazardous Reaction   | No data available |
| Conditions to Avoid                 | No data available |
| Incompatible Substances or Mixtures | No data available |
| Hazardous Decomposition Products    | No data available |

**Section 11 - TOXICOLOGICAL INFORMATION**

|  |                          |
|--|--------------------------|
| Acute Toxicity                                     | No information available |
| Skin Corrosion/Irritation                          | No data available        |
| Serious eye damage/eye irritation                  | No data available        |
| Respiratory or Skin Sensitization                  | No data available        |
| Germ Cell Mutagenicity                             | No data available        |
| Carcinogenicity                                    | No data available        |
| Reproductive Toxicity                              | No data available        |
| Specific target organ toxicity (single exposure)   | No data available        |
| Specific target organ toxicity (repeated exposure) | No data available        |
| Aspiration Hazard                                  | No data available        |

**Section 12 - ECOLOGICAL INFORMATION**

|  |                   |
|--|-------------------|
| Hazardous to the aquatic environment (acute)     | No data available |
| Hazardous to the aquatic environment (long-term) | No data available |
| Hazardous to the ozone layer                     | No data available |

**Section 13 - DISPOSAL CONSIDERATIONS**

|                |   |
|----------------|---|
| Residual Waste | <p>Disposal should be in accordance with applicable regulations and standards by the respective local governments.</p> <p>Commission a waste disposal company, or a local public body who are licensed by local or regional government, to dispose of the material.</p> |
|----------------|---|

## Contaminated Container and Packaging

When commissioning the disposal to a disposal company, notify the danger and toxicity thoroughly to the company.

Do not release waste liquid containing the product and used water for cleansing into rivers, etc., or do not discharge the concerned wastes intact for reclamation.

Recycle containers after cleansing, or carry out the disposal under the related laws and regulations and the standards of the local governments.

In case of disposal of empty containers, remove the content thoroughly.

## Section 14 - TRANSPORT INFORMATION

### International Regulations

#### Regulatory Information by Sea

Conform to the provisions of IMO.

UN No.

1263

Proper Shipping  
Name

PAINT

Class

3

Packing Group

II

Marine Pollutant

Not applicable

Transport in bulk  
according to MARPOL  
73/78, Annex II, and  
the IBC code

Not applicable

#### Regulatory Information by Air

Conform to the provisions of ICAO/IATA.

UN No.

1263

Proper Shipping  
Name

PAINT

Class

3

Packing Group

II

### Regulations in Japan

#### Regulatory

Not applicable

#### Information by Road or Rail

#### Regulatory

Conform to the provisions of the Ship Safety Law.

#### Information by Sea

UN No.

1263

Proper Shipping  
Name.

PAINT

Class

3

Packing Group

II

Marine Pollutant

Not applicable

|  |                |
|--|----------------|
| Transport in bulk<br>according to MARPOL<br>73/78, Annex II, and<br>the IBC code | Not applicable |
|--|----------------|

|  |  |
|--|--|
| Regulatory<br>Information by Air<br>UN No.<br>Proper Shipping<br>Name.<br>Class<br>Packing Group | Conform to the provisions of the Civil Aeronautics<br>Law.<br>1263<br>PAINT<br><br>3<br>II |
| Emergency Response<br>Guide Number   | Not applicable   |

#### Section 15 - REGULATORY INFORMATION

Regulatory information with regard to this product in your country or in your region should be examined by your own responsibility.

#### Section 16 - OTHER INFORMATION

Information Contact

Other Property

No information available

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