Safety Data Sheet (SDS)

Preparation Date 2018/11/15

Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier WPB20–15
Product Code WPB2015002
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

Recommended Use and Restriction on Use ink

K118–MB, BG208–MB, WPB9–MB

Section 2 – HAZARDS IDENTIFICATION

GHS Classification

Health Hazards
- Acute toxicity (Inhalation: vapour) Category 4
- Acute toxicity (Inhalation: dust and mist) Category 4
- Serious eye damage/eye irritation Category 2A
- Specific target organ toxicity (single exposure) Category 2 (blood, respiratory apparatus, kidney, central nervous system)
- Specific target organ toxicity (repeated exposure) Category 2 (liver, respiratory apparatus, kidney)
- Other hazards than mentioned above are Not applicable or Classification not possible.

GHS Label Elements

Symbols

![Warning Symbol]

Signal Word Warning

Hazard Statements
- H319 Causes serious eye irritation
- H332 Harmful if inhaled
- H371 May cause damage to blood, respiratory apparatus, kidney, central nervous system
- H373 May cause damage to liver, respiratory apparatus, kidney through prolonged or repeated exposure

Precautionary Statements

Prevention
- Do not breathe mist, vapours and spray. (P260)
- Avoid breathing mist, vapours and spray. (P261)
- Avoid breathing dust and fume. (P261)
- Wash hand thoroughly after handling. (P264)
- Wash eye thoroughly after handling. (P264)
Response Precautionary Statements
Do not eat, drink or smoke when using this product. (P270)
Use only outdoors or in a well-ventilated area. (P271)
Wear eye protection and face protection. (P280)
IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. (P304+P340)
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 exposed or concerned: Call a POISON CENTER/doctor/...(P308+P311)
Get medical advice and attention if you feel unwell. (P312)
If eye irritation persists: Get medical advice and attention. (P337+P313)
Call a doctor if you feel unwell. (P314)
Get medical advice and attention if you feel unwell. (P314)

Storage 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

<table>
<thead>
<tr>
<th>Distinction of Substance or Mixture</th>
<th>Chemical Name or Generic Name</th>
<th>Concentration or Its Ranges</th>
<th>Formula</th>
<th>ENCS No./ISHL No.</th>
<th>ENCS No.</th>
<th>ISHL No.</th>
<th>CAS RN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mixture</td>
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<td>7.5%</td>
<td>HOCH2CH(2)-230</td>
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<tr>
<td></td>
<td>Glycerol</td>
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</tr>
<tr>
<td></td>
<td>Aluminum</td>
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<td>Unknown</td>
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<tr>
<td></td>
<td>Propyleneglycol mono methylether</td>
<td>1.48%</td>
<td>(2)-404.(7)-97</td>
<td>Existing</td>
<td>107–98–2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Impurities and/or Stabilizing Additives which Contribute to the

Section 4 – FIRST AID MEASURES

Inhalation Get medical advice and attention if you feel unwell.

Skin Contact Wash with soap and water.

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

Small fires: Dry chemical, CO2, water spray or regular foam.

Section 6 – ACCIDENTAL RELEASE MEASURES

Environmental Precautions

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

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

Prevention Measures for Secondary Accidents

Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. After removal, flush contaminated area thoroughly with water.

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

Wash hand thoroughly after handling.

Prevents Handling of Incompatible Substances or Mixtures

Avoid swallowing.
Avoid contact with eyes.
Protect from high temperature and direct sunlight.

Refer to ”Section 10 – STABILITY AND REACTIVITY”.

Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

Good general ventilation should be sufficient to control airborne levels.

Personal Protective Equipment

Respiratory Protection

Use personal respiratory equipment as required.

Hand Protection

Use personal gloves as required.

Eye Protection

Use personal eye protection as required.

Skin and Body Protection

Use personal protective clothing and face protection as required.

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State: liquid

Form

liquid (viscous liquid)

Colour

Metallic Red

Odour

slight odor

Odour threshold

No data available

pH

No data available
<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Melting Point/Freezing Point</td>
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<tr>
<td>Initial Boiling Point and Boiling Ranges</td>
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<tr>
<td>Flash Point</td>
<td>No data available</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability or Explosive Limits</td>
<td>No data available</td>
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<tr>
<td>Lower Limit</td>
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<tr>
<td>Upper Limit</td>
<td>No data available</td>
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<td>Vapour Pressure</td>
<td>No data available</td>
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<tr>
<td>Vapour Density</td>
<td>No data available</td>
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<td>Specific Gravity (Density)</td>
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<tr>
<td>Partition Coefficient : n-Octanol/Water</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-Ignition</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition</td>
<td>No data available</td>
</tr>
<tr>
<td>Temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
</tr>
<tr>
<td>Kinematic viscosity</td>
<td>No data available</td>
</tr>
</tbody>
</table>

### 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 Sensitization: No data available
- 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

- No data available
- No data available
- No data available
- No data available
- No data available
- No data available
- No data available
- No data available
- No data available
- No data available
- No data available
- No data available
- No data available
- No data available
**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.

**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.

### Section 14 – TRANSPORT INFORMATION

#### International Regulations

| Regulatory Information by Sea | Not applicable |
| Marine Pollutant Transport in bulk according to MARPOL 73/78,Annex II,and the IBC code | Not applicable |

#### Regulations in Japan

| Regulatory Information by Road or Rail | Not applicable |
| Regulatory Information by Sea | Not applicable |
| Marine Pollutant Transport in bulk according to MARPOL 73/78,Annex II,and the IBC code | Not applicable |

#### Emergency Response Guide Number

| Regulatory Information by Air | 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 legal responsibility for use of or reliance upon this information.
Safety Data Sheet (SDS)

Preparation Date 2012/11/19
Revision Date 2019/01/31

Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier WPB20–22
Product Code WPB2022001
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 03–5695–7210

Recommended Use and Restriction on Use ink
K118–MC, BG208–MC, WPB9–MC

Section 2 – HAZARDS IDENTIFICATION

GHS Classification

Health Hazards
Acute toxicity (Inhalation: vapour) Category 4
Acute toxicity (Inhalation: dust and mist) Category 4
Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2A
Specific target organ toxicity (single exposure) Category 1(blood,kidney,central nervous system)
Specific target organ toxicity (single exposure) Category 2(respiratory apparatus)
Specific target organ toxicity (single exposure) Category 3(narcotic effect,respiratory tract irritation)
Specific target organ toxicity (repeated exposure) Category 2(respiratory apparatus)
Other hazards than mentioned above are Not applicable or Classification not possible.

GHS Label Elements

Symbols

Signal Word Danger

Hazard Statements
H315 Causes skin irritation
H319 Causes serious eye irritation
H335 May cause respiratory irritation
H336 May cause drowsiness or dizziness
H371 May cause damage to respiratory apparatus
H332 Harmful if inhaled
H370 Causes damage to blood,kidney,central nervous system
H373 May cause damage to respiratory apparatus through prolonged or repeated exposure

Precautionary Statements
Prevention
Precautionary Statements
Avoid breathing gas. (P261)
Avoid breathing dust and fume. (P261)
Wear protective gloves. (P280)
Wear eye protection and face protection. (P280)
Do not breathe mist, vapours and spray. (P260)
Wash hand thoroughly after handling. (P264)
Wash eye thoroughly after handling. (P264)
Do not eat, drink or smoke when using this product. (P270)

Response
Precautionary Statements
IF ON SKIN: Wash with plenty of soap and water. (P302+P352)
IF exposed or concerned: Call a POISON CENTER/doctor/.../(P308+P311)
Call a doctor if you feel unwell. (P312)
If skin irritation occurs: Get medical advice and attention. (P332+P313)
Take off contaminated clothing and wash it before reuse. (P362+P364)
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)
Get medical advice and attention if you feel unwell. (P314)
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)
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

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<thead>
<tr>
<th>Chemical Name or Generic Name</th>
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<th>Formula</th>
<th>ENCS No./ISHL No.</th>
<th>CAS RN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol</td>
<td>41%</td>
<td>HOCH2CH2OH</td>
<td>(2)–230</td>
<td>Existing</td>
</tr>
<tr>
<td>Glycerol</td>
<td>5.36%</td>
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<td>(2)–242</td>
<td>Existing</td>
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<td>C. I. Pigment Blue 1 5:3</td>
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<tr>
<td>Aluminum</td>
<td>2.18%</td>
<td>Al</td>
<td>Unknown</td>
<td>Unknown</td>
</tr>
<tr>
<td>Propylenglycol mono methyl ether</td>
<td>1.46%</td>
<td></td>
<td>(2)–404.(7)–97</td>
<td>Existing</td>
</tr>
</tbody>
</table>

Impurities and/or Stabilizing Additives which Contribute to the
Section 4 - FIRST AID MEASURES

Inhalation

Get medical advice and attention if you feel unwell.

Skin Contact

Wash with soap and water.

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.

Get medical advice and attention if you feel unwell.

Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media

Dry chemicals, CO2, water spray or regular foam.

Section 6 - ACCIDENTAL RELEASE MEASURES

Environmental Precautions

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

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.
After removal, flush contaminated area thoroughly with water.

Prevention Measures for Secondary Accidents

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

Wash hand thoroughly after handling.

Avoid swallowing.
Avoid contact with eyes.
Protect from high temperature and direct sunlight.
Refer to “Section 10 – STABILITY AND REACTIVITY”.

Prevents Handling of Incompatible Substances or Mixtures

Storage Precautionary Statements Conditions for Safe Storage

Refer to “Section 10 – STABILITY AND REACTIVITY”.
Have containers keep away from direct sunlight and heat.
Keep away from heat.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

Good general ventilation should be sufficient to control airborne levels.

Personal Protective Equipment

Respiratory Protection
Use personal respiratory equipment as required.

Hand Protection
Use personal gloves as required.
<table>
<thead>
<tr>
<th>Section 9 – PHYSICAL AND CHEMICAL PROPERTIES</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
</tr>
<tr>
<td><strong>Form</strong></td>
</tr>
<tr>
<td><strong>Colour</strong></td>
</tr>
<tr>
<td><strong>Odour</strong></td>
</tr>
<tr>
<td><strong>Odour threshold</strong></td>
</tr>
<tr>
<td><strong>pH</strong></td>
</tr>
<tr>
<td><strong>Melting Point/Freezing Point</strong></td>
</tr>
<tr>
<td><strong>Initial Boiling Point and Boiling Ranges</strong></td>
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<tr>
<td><strong>Flash Point</strong></td>
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<td><strong>Evaporation Rate</strong></td>
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<td><strong>Flammability (solid, gas)</strong></td>
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<tr>
<td><strong>Flammability or Explosive Limits</strong></td>
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<td><strong>Vapour Pressure</strong></td>
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<td><strong>Vapour Density</strong></td>
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<td><strong>Specific Gravity (Density)</strong></td>
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<td><strong>Partition Coefficient : n-Octanol/Water</strong></td>
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<td><strong>Auto-Ignition</strong></td>
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<td><strong>Decomposition</strong></td>
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<tr>
<td><strong>Temperature</strong></td>
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<td><strong>Viscosity</strong></td>
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<td><strong>Kinematic viscosity</strong></td>
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<table>
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<th>Section 10 – STABILITY AND REACTIVITY</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Reactivity</strong></td>
</tr>
<tr>
<td><strong>Chemical stability</strong></td>
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<tr>
<td><strong>Possibility of Hazardous Reaction</strong></td>
</tr>
<tr>
<td><strong>Conditions to Avoid</strong></td>
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<tr>
<td><strong>Incompatible Substances or Mixtures</strong></td>
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<td><strong>Hazardous Decomposition Products</strong></td>
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</tbody>
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<table>
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<tr>
<th>Section 11 – TOXICOLOGICAL INFORMATION</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Acute Toxicity</strong></td>
</tr>
<tr>
<td><strong>Skin Corrosion/Irritation</strong></td>
</tr>
<tr>
<td><strong>Serious eye damage/eye irritation</strong></td>
</tr>
<tr>
<td><strong>Respiratory Sensitization</strong></td>
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<td><strong>Skin Sensitization</strong></td>
</tr>
<tr>
<td><strong>Germ Cell Mutagenicity</strong></td>
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<tr>
<td><strong>Carcinogenicity</strong></td>
</tr>
<tr>
<td><strong>Reproductive Toxicity</strong></td>
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<tr>
<td><strong>Specific target organ toxicity (single exposure)</strong></td>
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<tr>
<td><strong>Specific target organ toxicity (repeated exposure)</strong></td>
</tr>
<tr>
<td><strong>Aspiration Hazard</strong></td>
</tr>
</tbody>
</table>

Use personal eye protection as required.
Use personal protective clothing and face protection as required.
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  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. Recycle containers after cleansing, or carry out the disposal under the related laws and regulations and the standards of the local governments.

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

Section 14 - TRANSPORT INFORMATION

International Regulations
Regulatory Information by Sea  Not applicable
Marine Pollutant  Not applicable
Transport in bulk according to MARPOL 73/78,Annex II, and the IBC code  Not applicable
Regulatory Information by Air  Not applicable

Regulations in Japan
Regulatory Information by Road or Rail  Not applicable
Regulatory Information by Sea  Not applicable
Marine Pollutant  Not applicable
Transport in bulk according to MARPOL 73/78,Annex II, and the IBC code  Not applicable
Regulatory Information by Air  Not applicable

Emergency Response 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 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  2012/11/19
Revision Date  2019/01/31

Section 1 - CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier  WPB20–21
Product Code         WPB2021001
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      03–5695–7210

Recommended Use and Restriction on Use  ink

K118–MD, BG208–MD, WPB9–MD

Section 2 – HAZARDS IDENTIFICATION

GHS Classification

Health Hazards

Acute toxicity (Inhalation: vapour) Category 4
Acute toxicity (Inhalation: dust and mist) Category 4
Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2A
Specific target organ toxicity (single exposure) Category 1(blood,kidney,central nervous system)
Specific target organ toxicity (single exposure) Category 2(respiratory apparatus)
Specific target organ toxicity (repeated exposure) Category 3(narcotic effect,respiratory tract irritation)
Specific target organ toxicity (repeated exposure) Category 2(respiratory apparatus)
Other hazards than mentioned above are Not applicable or Classification not possible.

GHS Label Elements

Symbols

Signal Word

Danger

Hazard Statements

H315 Causes skin irritation
H319 Causes serious eye irritation
H335 May cause respiratory irritation
H336 May cause drowsiness or dizziness
H371 May cause damage to respiratory apparatus
H332 Harmful if inhaled
H370 Causes damage to blood,kidney,central nervous system
H373 May cause damage to respiratory apparatus through prolonged or repeated exposure

Precautionary Statements
Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Distinction of Substance or Mixture

<table>
<thead>
<tr>
<th>Chemical Name or Generic Name</th>
<th>Concentration or Its Ranges</th>
<th>Formula</th>
<th>ENCS No./ISHL No.</th>
<th>CAS RN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol</td>
<td>41%</td>
<td>HOCH2CH2OH</td>
<td>(2)–230</td>
<td>Existing</td>
</tr>
<tr>
<td>Glycerol</td>
<td>5%</td>
<td>CH2OHCH(OH)CH2OH</td>
<td>(2)–242</td>
<td>Existing</td>
</tr>
<tr>
<td>Pigment green 36</td>
<td>2.68%</td>
<td></td>
<td>(5)–3318</td>
<td>Existing</td>
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<tr>
<td>Aluminum</td>
<td>2.18%</td>
<td>Al</td>
<td>Unknown</td>
<td>Unknown</td>
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<tr>
<td>Propylenglycol mono methyl ether</td>
<td>1.46%</td>
<td></td>
<td>(2)–404,(7)–97</td>
<td>Existing</td>
</tr>
</tbody>
</table>

Impurities and/or Stabilizing Additives which Contribute to the

Section 4 - FIRST AID MEASURES

Inhalation

Avoid breathing gas.(P261)
Avoid breathing dust and fume.(P261)
Wear protective gloves.(P280)
Wear eye protection and face protection.(P280)
Do not breathe mist, vapours and spray.(P260)
Wash hand thoroughly after handling.(P264)
Wash eye thoroughly after handling.(P264)
Do not eat, drink or smoke when using this product.(P270)

Response

IF ON SKIN: Wash with plenty of soap and water.(P302+P352)

IF exposed or concerned: Call a POISON CENTER/doctor/...(P308+P311)
Call a doctor if you feel unwell.(P312)
If skin irritation occurs: Get medical advice and attention.(P332+P313)
Take off contaminated clothing and wash it before reuse.(P362+P364)
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.(P305+P351+P338)
Get medical advice and attention if you feel unwell.(P314)
If eye irritation persists: Get medical advice and attention.(P337+P313)

Storage

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

Disposal

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

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.

Section 6 - ACCIDENTAL RELEASE MEASURES
Environmental Precautions
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
Vacuum or sweep up material and place in a disposal container.

Prevention Measures for Secondary Accidents
Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. After removal, flush contaminated area thoroughly with water.

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
Wash hand thoroughly after handling.

Avoid swallowing.

Prevent from high temperature and direct sunlight.

Refer to "Section 10 – STABILITY AND REACTIVITY".

Prevents Handling of Incompatible Substances or Mixtures

Storage Precautionary Statements
Conditions for Safe Storage
Refer to "Section 10 – STABILITY AND REACTIVITY".

Have containers keep away from direct sunlight and heat.

Keep away from heat.

Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION
Engineering Controls
Good general ventilation should be sufficient to control airborne levels.

Personal Protective Equipment
Respiratory Protection
Use personal respiratory equipment as required.

Hand Protection
Use personal gloves as required.

Eye Protection
Use personal eye protection as required.
### Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
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<tr>
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<td>Melting Point/Freezing Point</td>
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<tr>
<td>Initial Boiling Point and Boiling Ranges</td>
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<td>Flash Point</td>
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<td>Evaporation Rate</td>
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<td>Flammability (solid, gas)</td>
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<td>Kinematic viscosity</td>
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### Section 10 – STABILITY AND REACTIVITY

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<td>Reactivity</td>
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<tr>
<td>Chemical stability</td>
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<tr>
<td>Possibility of Hazardous Reaction</td>
<td>No data available</td>
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<tr>
<td>Conditions to Avoid</td>
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<tr>
<td>Incompatible Substances or Mixtures</td>
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<tr>
<td>Hazardous Decomposition Products</td>
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### Section 11 – TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>Acute Toxicity</td>
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<tr>
<td>Skin Corrosion/Irritation</td>
<td>No data available</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>No data available</td>
</tr>
<tr>
<td>Respiratory Sensitization</td>
<td>No data available</td>
</tr>
<tr>
<td>Skin Sensitization</td>
<td>No data available</td>
</tr>
<tr>
<td>Germ Cell Mutagenicity</td>
<td>No data available</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>No data available</td>
</tr>
<tr>
<td>Reproductive Toxicity</td>
<td>No data available</td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>No data available</td>
</tr>
<tr>
<td>Specific target organ toxicity (repeated exposure)</td>
<td>No data available</td>
</tr>
<tr>
<td>Aspiration Hazard</td>
<td>No data available</td>
</tr>
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</table>

Use personal protective clothing and face protection as required.
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 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.
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.

Section 14 - TRANSPORT INFORMATION
International Regulations
Regulatory Information by Sea Not applicable
Marine Pollutant Transport in bulk according to MARPOL 73/78, Annex II, and the IBC code Not applicable
Regulatory Information by Air Not applicable
Regulations in Japan
Regulatory Information by Road or Rail Not applicable
Regulatory Information by Sea Marine Pollutant Transport in bulk according to MARPOL 73/78, Annex II, and the IBC code Not applicable
Regulatory Information by Air Not applicable
Emergency Response 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
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.
Other Property Not applicable
## Section 1 - CHEMICALS AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Chemical Identifier</th>
<th>WPB20-25</th>
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<tr>
<td>Product Code</td>
<td>WPB2025001</td>
</tr>
<tr>
<td>Company Name</td>
<td>PENTEL CO., LTD.</td>
</tr>
<tr>
<td>Address</td>
<td>7-2,KOAMICHO,NIHONBASHI,CHUO-KU,TOKYO</td>
</tr>
<tr>
<td>Company Contact</td>
<td>QUALITY ASSURANCE DEPARTMENT I</td>
</tr>
<tr>
<td>Phone Number</td>
<td>03-5695-7210</td>
</tr>
<tr>
<td>Fax Number</td>
<td>03-5645-8204</td>
</tr>
<tr>
<td>Mail Address</td>
<td><a href="mailto:hinpo@pentel.co.jp">hinpo@pentel.co.jp</a></td>
</tr>
<tr>
<td>Emergency Phone</td>
<td>03-5695-7210</td>
</tr>
<tr>
<td>Phone Number</td>
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</tr>
<tr>
<td>Emergency Phone</td>
<td>03-5695-7210</td>
</tr>
</tbody>
</table>

### Recommended Use and Restriction on Use

- Ink
- K118-ME, BG208-ME, WPB9-ME

## Section 2 - HAZARDS IDENTIFICATION

### GHS Classification

<table>
<thead>
<tr>
<th>Health Hazards</th>
<th>Acute toxicity (Inhalation: vapour) Category 4</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Acute toxicity (Inhalation: dust and mist) Category 4</td>
</tr>
<tr>
<td></td>
<td>Skin corrosion/irritation Category 2</td>
</tr>
<tr>
<td></td>
<td>Serious eye damage/eye irritation Category 2A</td>
</tr>
<tr>
<td></td>
<td>Specific target organ toxicity (single exposure) Category 1(blood,kidney,central nervous system)</td>
</tr>
<tr>
<td></td>
<td>Specific target organ toxicity (single exposure) Category 2(respiratory apparatus)</td>
</tr>
<tr>
<td></td>
<td>Specific target organ toxicity (single exposure) Category 3(narcotic effect,respiratory tract irritation)</td>
</tr>
<tr>
<td></td>
<td>Specific target organ toxicity (repeated exposure) Category 2(respiratory apparatus)</td>
</tr>
<tr>
<td></td>
<td>Other hazards than mentioned above are Not applicable or Classification not possible.</td>
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### GHS Label Elements

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<tr>
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<table>
<thead>
<tr>
<th>Signal Word</th>
<th>Danger</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazard Statements</td>
<td>H315 Causes skin irritation</td>
</tr>
<tr>
<td></td>
<td>H319 Causes serious eye irritation</td>
</tr>
<tr>
<td></td>
<td>H335 May cause respiratory irritation</td>
</tr>
<tr>
<td></td>
<td>H336 May cause drowsiness or dizziness</td>
</tr>
<tr>
<td></td>
<td>H371 May cause damage to respiratory apparatus</td>
</tr>
<tr>
<td></td>
<td>H332 Harmful if inhaled</td>
</tr>
<tr>
<td></td>
<td>H370 Causes damage to blood,kidney,central nervous system</td>
</tr>
<tr>
<td></td>
<td>H373 May cause damage to respiratory apparatus through prolonged or repeated exposure</td>
</tr>
<tr>
<td>Precautionary Statements</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
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<td></td>
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Section 3 – COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name or Generic Name</th>
<th>Concentration or Its Ranges</th>
<th>Formula</th>
<th>ENCS No./ISHL No.</th>
<th>CAS RN</th>
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</tr>
<tr>
<td>Glycerol</td>
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<td>(2)–242</td>
<td>Existing</td>
</tr>
<tr>
<td>Aluminum</td>
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<td>Al</td>
<td>Unknown</td>
<td>Unknown</td>
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<td>Propyleneglycol mono methylether</td>
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<td>(2)–404.(7)–97</td>
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<td>107–98–2</td>
</tr>
</tbody>
</table>

Impurities and/or Stabilizing Additives which Contribute to the

Section 4 – FIRST AID MEASURES

Inhalation
Get medical advice and attention if you feel unwell.

Skin Contact
Wash with soap and water.
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.

Section 6 – ACCIDENTAL RELEASE MEASURES
Environmental Precautions
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
Vacuum or sweep up material and place in a disposal container.
Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. After removal, flush contaminated area thoroughly with water.

Prevention Measures for Secondary Accidents
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
Wash hand thoroughly after handling.
Avoid swallowing.
Avoid contact with eyes.
Prevent from high temperature and direct sunlight.
Refer to “Section 10 – STABILITY AND REACTIVITY”.

Prevents Handling of Incompatible Substances or Mixtures

Storage Precautionary Statements
Conditions for Safe Storage
Refer to “Section 10 – STABILITY AND REACTIVITY”.
Have containers keep away from direct sunlight and heat.
Keep away from heat.

Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION
Engineering Controls
Good general ventilation should be sufficient to control airborne levels.

Personal Protective Equipment
Respiratory Protection
Use personal respiratory equipment as required.

Hand Protection
Use personal gloves as required.

Eye Protection
Use personal eye protection as required.

Skin and Body Protection
Use personal protective clothing and face protection as required.
### Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
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<tbody>
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<td>Physical State: liquid</td>
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<tr>
<td>Form</td>
<td>liquid</td>
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<tr>
<td>Colour</td>
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<tr>
<td>Odour</td>
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<td>Odour threshold</td>
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<tr>
<td>pH</td>
<td>No data available</td>
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<td>Melting Point/Freezing Point</td>
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<td>Initial Boiling Point and Boiling Ranges</td>
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<td>Flash Point</td>
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<td>Evaporation Rate</td>
<td>No data available</td>
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<tr>
<td>Flammability (solid, gas)</td>
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<td>Specific Gravity (Density)</td>
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<td>Partition Coefficient : n-Octanol/Water</td>
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<td>Viscosity</td>
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<tr>
<td>Kinematic viscosity</td>
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### Section 10 – STABILITY AND REACTIVITY

<table>
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<th>Property</th>
<th>Value</th>
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<td>Possibility of Hazardous Reaction</td>
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<td>Conditions to Avoid</td>
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<tr>
<td>Incompatible Substances or Mixtures</td>
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### Section 11 – TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>Acute Toxicity</td>
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<td>Skin Corrosion/Irritation</td>
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<tr>
<td>Serious eye damage/eye irritation</td>
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<tr>
<td>Respiratory Sensitization</td>
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<tr>
<td>Skin Sensitization</td>
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<tr>
<td>Germ Cell Mutagenicity</td>
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<tr>
<td>Carcinogenicity</td>
<td>No data available</td>
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<tr>
<td>Reproductive Toxicity</td>
<td>No data available</td>
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<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>No data available</td>
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<tr>
<td>Specific target organ toxicity (repeated exposure)</td>
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<tr>
<td>Aspiration Hazard</td>
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### 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
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.

#### 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.

### Section 14 – TRANSPORT INFORMATION

#### International Regulations
- Regulatory Information by Sea
  - Transport in bulk according to MARPOL 73/78, Annex II, and the IBC code
  - Not applicable

- Regulatory Information by Air
  - Not applicable

#### Regulations in Japan
- Regulatory Information by Road or Rail
  - Not applicable

- Regulatory Information by Sea
  - Transport in bulk according to MARPOL 73/78, Annex II, and the IBC code
  - Not applicable

- Regulatory Information by Air
  - 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 legal responsibility for use of or reliance upon this information.
Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier  WPB20–24
Product Code        WPB2024001
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     03–5695–7210

Recommended Use and Restriction on Use

ink

K118–MP, BG208–MP, K230–MP, WPB9–MP

Section 2 – HAZARDS IDENTIFICATION

GHS Classification

Health Hazards
- Acute toxicity (Inhalation: vapour) Category 4
- Acute toxicity (Inhalation: dust and mist) Category 4
- Skin corrosion/irritation Category 2
- Serious eye damage/eye irritation Category 2A
- Specific target organ toxicity (single exposure) Category 1 (blood, kidney, central nervous system)
- Specific target organ toxicity (single exposure) Category 2 (respiratory apparatus)
- Specific target organ toxicity (single exposure) Category 3 (narcotic effect, respiratory tract irritation)
- Specific target organ toxicity (repeated exposure) Category 2 (respiratory apparatus)
- Other hazards than mentioned above are Not applicable or Classification not possible.

GHS Label Elements

Symbols

Signal Word  Danger
Hazard Statements
- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H335 May cause respiratory irritation
- H336 May cause drowsiness or dizziness
- H371 May cause damage to respiratory apparatus
- H332 Harmful if inhaled
- H370 Causes damage to blood, kidney, central nervous system
- H373 May cause damage to respiratory apparatus through prolonged or repeated exposure

Precautionary Statements
Prevention/Precautionary Statements

Do not breathe mist, vapours and spray. (P260)

Avoid breathing gas. (P261)
Avoid breathing dust and fume. (P261)
Wear protective gloves. (P280)
Wear eye protection and face protection. (P280)
Wash hand thoroughly after handling. (P264)
Wash eye thoroughly after handling. (P264)
Do not eat, drink or smoke when using this product. (P270)

Response/Precautionary Statements

IF ON SKIN: Wash with plenty of soap and water. (P302+P352)

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 exposed or concerned: Call a POISON CENTER/doctor/... (P308+P311)
Call a doctor if you feel unwell. (P312)
If skin irritation occurs: Get medical advice and attention. (P322+P313)
Take off contaminated clothing and wash it before reuse. (P362+P364)
Get medical advice and attention if you feel unwell. (P314)
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)
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

<table>
<thead>
<tr>
<th>Chemical Name or Generic Name</th>
<th>Concentration or Its Ranges</th>
<th>Formula</th>
<th>ENCS No./ISHL No.</th>
<th>CAS RN</th>
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</tr>
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<td>Glycerol</td>
<td>5%</td>
<td>CH2OHCH(OH)C H2OH</td>
<td>(2)–242</td>
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<td>Aluminum</td>
<td>2.18%</td>
<td>Al</td>
<td>Unknown</td>
<td>Unknown</td>
</tr>
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<td>Propylene glycol mono methylether</td>
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<td>(2)–404,(7)–97</td>
<td>Existing</td>
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</tr>
</tbody>
</table>

Impurities and/or Stabilizing Additives which Contribute to the

Section 4 – FIRST AID MEASURES

Inhalation
Get medical advice and attention if you feel unwell.

Skin Contact
Wash with soap and water.
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.

Section 6 – ACCIDENTAL RELEASE MEASURES
Environmental Precautions
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
Vacuum or sweep up material and place in a disposal container.

Prevention Measures for Secondary Accidents
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
Wash hand thoroughly after handling.
Avoid swallowing.
Avoid contact with eyes.
Protect from high temperature and direct sunlight.

Prevents Handling of Incompatible Substances or Mixtures
Refer to “Section 10 – STABILITY AND REACTIVITY”.

Storage Precautionary Statements Conditions for Safe Storage
Refer to “Section 10 – STABILITY AND REACTIVITY”.
Have containers keep away from direct sunlight and heat.
Keep away from heat.

Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION
Engineering Controls
Good general ventilation should be sufficient to control airborne levels.

Personal Protective Equipment
Respiratory Protection
Use personal respiratory equipment as required.

Hand Protection
Use personal gloves as required.

Eye Protection
Use personal eye protection as required.

Skin and Body Protection
Use personal protective clothing and face protection as required.
Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Physical State</td>
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<td>Form</td>
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<td>Colour</td>
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</tr>
<tr>
<td>Odour</td>
<td></td>
</tr>
<tr>
<td>Odour threshold</td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td></td>
</tr>
<tr>
<td>Melting Point/Freezing Point</td>
<td></td>
</tr>
<tr>
<td>Initial Boiling Point and Boiling Ranges</td>
<td></td>
</tr>
<tr>
<td>Flash Point</td>
<td></td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
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</tr>
<tr>
<td>Flammability or Explosive Limits</td>
<td>Lower Limit</td>
</tr>
<tr>
<td></td>
<td>Upper Limit</td>
</tr>
<tr>
<td>Vapour Pressure</td>
<td></td>
</tr>
<tr>
<td>Vapour Density</td>
<td></td>
</tr>
<tr>
<td>Specific Gravity (Density)</td>
<td></td>
</tr>
<tr>
<td>Partition Coefficient : n-Octanol/Water</td>
<td></td>
</tr>
<tr>
<td>Auto-Ignition</td>
<td></td>
</tr>
<tr>
<td>Decomposition</td>
<td></td>
</tr>
<tr>
<td>Temperature</td>
<td></td>
</tr>
<tr>
<td>Viscosity</td>
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</tr>
<tr>
<td>Kinematic viscosity</td>
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Section 10 – STABILITY AND REACTIVITY

<table>
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<th>Value</th>
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<td>Reactivity</td>
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<tr>
<td>Chemical stability</td>
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<td>Possibility of Hazardous Reaction</td>
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<tr>
<td>Conditions to Avoid</td>
<td>No data available</td>
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<tr>
<td>Incompatible Substances or Mixtures</td>
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<td>Hazardous Decomposition Products</td>
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Section 11 – TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tr>
<td>Acute Toxicity</td>
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<tr>
<td>Skin Corrosion/Irritation</td>
<td>No data available</td>
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<tr>
<td>Serious eye damage/eye irritation</td>
<td>No data available</td>
</tr>
<tr>
<td>Respiratory Sensitization</td>
<td>No data available</td>
</tr>
<tr>
<td>Skin Sensitization</td>
<td>No data available</td>
</tr>
<tr>
<td>Germ Cell Mutagenicity</td>
<td>No data available</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>No data available</td>
</tr>
<tr>
<td>Reproductive Toxicity</td>
<td>No data available</td>
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<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>No data available</td>
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<tr>
<td>Specific target organ toxicity (repeated exposure)</td>
<td>No data available</td>
</tr>
<tr>
<td>Aspiration Hazard</td>
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</tr>
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</table>

Section 12 – ECOLOGICAL INFORMATION

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.

**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.

### Section 14 - TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>International Regulations</th>
<th>Regulatory Information by Sea</th>
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<tbody>
<tr>
<td></td>
<td>Marine Pollutant</td>
<td>Not applicable</td>
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<tr>
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</table>

<table>
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<tr>
<th>Regulations in Japan</th>
<th>Regulatory Information by Air</th>
<th>Not applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Regulartory Information by Road or Rail</td>
<td>Not applicable</td>
</tr>
<tr>
<td></td>
<td>Regulatory Information by Sea Marine Pollutant</td>
<td>Not applicable</td>
</tr>
<tr>
<td></td>
<td>Transport in bulk according to MARPOL 73/78,Annex II,and the IBC code</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

**Emergency Response 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 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  2012/11/19
Revision Date  2019/01/31

Section 1 - CHEMICALS AND COMPANY IDENTIFICATION

- **Chemical Identifier**: WPB20-23
- **Product Code**: WPB2023001
- **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
- **Recommended Use and Restriction on Use**: ink

Section 2 - HAZARDS IDENTIFICATION

**GHS Classification**

- **Health Hazards**: Acute toxicity (Inhalation: vapour) Category 4
- **Health Hazards**: Acute toxicity (Inhalation: dust and mist) Category 4
- **Health Hazards**: Skin corrosion/irritation Category 2
- **Health Hazards**: Serious eye damage/eye irritation Category 2A
- **Health Hazards**: Specific target organ toxicity (single exposure) Category 1 (blood, kidney, central nervous system)
- **Health Hazards**: Specific target organ toxicity (single exposure) Category 2 (respiratory apparatus)
- **Health Hazards**: Specific target organ toxicity (single exposure) Category 3 (narcotic effect, respiratory tract irritation)
- **Health Hazards**: Specific target organ toxicity (repeated exposure) Category 2 (respiratory apparatus)
- **Health Hazards**: Other hazards than mentioned above are Not applicable or Classification not possible.

**GHS Label Elements**

- **Symbols**

- **Signal Word**: Danger
- **Hazard Statements**: H315 Causes skin irritation
- **Hazard Statements**: H319 Causes serious eye irritation
- **Hazard Statements**: H335 May cause respiratory irritation
- **Hazard Statements**: H336 May cause drowsiness or dizziness
- **Hazard Statements**: H371 May cause damage to respiratory apparatus
- **Hazard Statements**: H332 Harmful if inhaled
- **Hazard Statements**: H370 Causes damage to blood, kidney, central nervous system
- **Hazard Statements**: H373 May cause damage to respiratory apparatus through prolonged or repeated exposure

- **Precautionary Statements**
### Prevention

**Precautionary Statements**

- Avoid breathing gas. (P261)
- Avoid breathing dust and fume. (P261)
- Wear protective gloves. (P280)
- Wear eye protection and face protection. (P280)
- Wash hand thoroughly after handling. (P264)
- Wash eye thoroughly after handling. (P264)
- Do not eat, drink or smoke when using this product. (P270)

### Response

**Precautionary Statements**

- 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 exposed or concerned: Call a POISON CENTER/doctor/...(P308+P311)
- Call a doctor if you feel unwell. (P312)
- If skin irritation occurs: Get medical advice and attention. (P332+P313)
- Take off contaminated clothing and wash it before reuse. (P362+P364)
- Get medical advice and attention if you feel unwell. (P314)
- IF eye irritation persists: Get medical advice and attention. (P337+P313)
- Store in a well-ventilated place keeping container tightly closed. (P403+P233)
- Store locked up. (P405)

### Storage

**Precautionary Statements**

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

### Disposal

- 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

<table>
<thead>
<tr>
<th>Chemical Name or Generic Name</th>
<th>Concentration or Its Ranges</th>
<th>Formula</th>
<th>ENCS No./ISHL No. ENCS No.</th>
<th>ISHL No.</th>
<th>CAS RN</th>
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</thead>
<tbody>
<tr>
<td>Ethylene glycol</td>
<td>40%</td>
<td>HOCH2CH2OH</td>
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<td>Existing</td>
<td>107–21–1</td>
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<tr>
<td>Glycerol</td>
<td>5%</td>
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<td>(2)–242</td>
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<td>56–81–5</td>
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<tr>
<td>Aluminum</td>
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<td>Al</td>
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<td>Unknown</td>
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<td>107–98–2</td>
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</table>

#### Impurities and/or Stabilizing Additives which Contribute to the

No information available

### Section 4 – FIRST AID MEASURES

#### Inhalation

Get medical advice and attention if you feel unwell.

#### Skin Contact

Wash with soap and water.
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.

Section 6 - ACCIDENTAL RELEASE MEASURES
Environmental Precautions
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
Vacuum or sweep up material and place in a disposal container.
Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. After removal, flush contaminated area thoroughly with water.
Prevention Measures for Secondary Accidents
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
Wash hand thoroughly after handling. Avoid swallowing. Avoid contact with eyes. Protect from high temperature and direct sunlight. Refer to “Section 10 - STABILITY AND REACTIVITY”.
Prevents Handling of Incompatible Substances or Mixtures

Storage Precautionary Statements Conditions for Safe Storage
Refer to “Section 10 - STABILITY AND REACTIVITY”. Have containers keep away from direct sunlight and heat. Keep away from heat.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION
Engineering Controls
Good general ventilation should be sufficient to control airborne levels.

Personal Protective Equipment
Respiratory Protection
Use personal respiratory equipment as required.
Hand Protection
Use personal gloves as required.
Eye Protection
Use personal eye protection as required.
Skin and Body Protection
Use personal protective clothing and face protection as required.
Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Physical State: liquid</td>
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<td>Metallic Red</td>
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<tr>
<td>Odour</td>
<td>slight odor</td>
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<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting Point/Freezing Point</td>
<td>No data available</td>
</tr>
<tr>
<td>Initial Boiling Point and Boiling Ranges</td>
<td>No data available</td>
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<tr>
<td>Flash Point</td>
<td>No data available</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
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<tr>
<td>Flammability or Explosive Limits</td>
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<td></td>
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<td>Vapour Pressure</td>
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<td>Vapour Density</td>
<td>No data available</td>
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<tr>
<td>Specific Gravity (Density)</td>
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<td>Partition Coefficient : n-Octanol/Water</td>
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</tr>
<tr>
<td>Auto-Ignition</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition</td>
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<td>Temperature</td>
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<td>Viscosity</td>
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<tr>
<td>Kinematic viscosity</td>
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Section 10 – STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<td>Reactivity</td>
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<td>Chemical stability</td>
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<td>Conditions to Avoid</td>
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<td>Incompatible Substances or Mixtures</td>
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Section 11 – TOXICOLOGICAL INFORMATION

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<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>Acute Toxicity</td>
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<td>Skin Corrosion/Irritation</td>
<td>No data available</td>
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<td>Serious eye damage/eye irritation</td>
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<tr>
<td>Respiratory Sensitization</td>
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<tr>
<td>Skin Sensitization</td>
<td>No data available</td>
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<tr>
<td>Germ Cell Mutagenicity</td>
<td>No data available</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>No data available</td>
</tr>
<tr>
<td>Reproductive Toxicity</td>
<td>No data available</td>
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<tr>
<td>Specific target organ</td>
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<tr>
<td>toxicity (single exposure)</td>
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<tr>
<td>Specific target organ</td>
<td>No data available</td>
</tr>
<tr>
<td>toxicity (repeated exposure)</td>
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<tr>
<td>Aspiration Hazard</td>
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</tbody>
</table>

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  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.
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.

Section 14 – TRANSPORT INFORMATION
International Regulations  Regulatory Information by Sea
Marine Pollutant Transport in bulk according to MARPOL 73/78,Annex II,and the IBC code  Not applicable
Regulatory Information by Air  Not applicable
Regulations in Japan  Regulatory Information by Road or Rail  Not applicable
Regulatory Information by Sea Marine Pollutant Transport in bulk according to MARPOL 73/78,Annex II,and the IBC code  Not applicable
Regulatory Information by Air  Not applicable
Emergency Response 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 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.
Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier: WPB20-X
Product Code: WPB20X0002
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
Recommended Use and Restriction on Use: ink


Section 2 – HAZARDS IDENTIFICATION

GHS Classification
Health Hazards: Acute toxicity (Inhalation: vapour) Category 4
Acute toxicity (Inhalation: dust and mist) Category 4
Serious eye damage/eye irritation Category 2A
Specific target organ toxicity (single exposure) Category 2(blood, respiratory apparatus, kidney, central nervous system)
Specific target organ toxicity (repeated exposure) Category 2(Respiratory apparatus)
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
H332 Harmful if inhaled
H371 May cause damage to blood, respiratory apparatus, kidney, central nervous system
H373 May cause damage to respiratory apparatus through prolonged or repeated exposure

Precautionary Statements
Prevention
Avoid breathing dust and fume.(P261)
Do not breathe mist, vapours and spray.(P260)
Avoid breathing mist, vapours and spray.(P261)
Wash hand thoroughly after handling.(P264)

Precautionary Statements
Wear eye protection and face protection.(P280)
Wash eye thoroughly after handling.(P264)
Section 3 – COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Distinction of Substance or Mixture</th>
<th>Chemical Name or Generic Name</th>
<th>Concentration or Its Ranges</th>
<th>Formula</th>
<th>ENCS No./ISHL No./CAS RN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Section 4 – FIRST AID MEASURES</td>
<td>Ethylene glycol</td>
<td>7.5%</td>
<td>HOCH2CH2OH(2)–230</td>
<td>Existing/107–21–1</td>
</tr>
<tr>
<td></td>
<td>Glycerol</td>
<td>7.5%</td>
<td>CH2OHCH(OH)CH2OH(2)–242</td>
<td>Existing/56–81–5</td>
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<tr>
<td></td>
<td>Aluminum</td>
<td>2.64%</td>
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<td>Unknown/Unknown/7429–90–5</td>
</tr>
<tr>
<td></td>
<td>Propyleneglycol mono methyl ether</td>
<td>1.425%</td>
<td>unknown/unknown/107–98–2</td>
<td></td>
</tr>
</tbody>
</table>

Impurities and/or Stabilizing Additives which Contribute to the

IF exposed or concerned: Call a POISON CENTER/doctor/...(P308+P311)
Call a doctor if you feel unwell.(P312)
Get medical advice and attention if you feel unwell.(P314)
If eye irritation persists:  Get medical advice and attention.(P337+P313)
Store locked up.(P405)

Section 5 – FIRE FIGHTING MEASURES

<table>
<thead>
<tr>
<th>Extinguishing Media</th>
<th>Acceptable Media</th>
<th>Incompatible Media</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dry chemicals, CO2, water spray or regular foam.</td>
<td>(2)–404,(7)–97</td>
<td>(2)–230</td>
</tr>
</tbody>
</table>
Section 6 - ACCIDENTAL RELEASE MEASURES

Environmental Precautions

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

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

Prevention Measures for Secondary Accidents

Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. After removal, flush contaminated area thoroughly with water.

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

Wash hand thoroughly after handling.

Avoid swallowing.

Avoid contact with eyes.

Prevent from high temperature and direct sunlight.

Refer to "Section 10 - STABILITY AND REACTIVITY".

Storage Precautionary Statements

Conditions for Safe Storage

Refer to "Section 10 - STABILITY AND REACTIVITY".

Have containers keep away from direct sunlight and heat.

Keep away from heat.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineered Controls

Good general ventilation should be sufficient to control airborne levels.

Personal Protective Equipment

Respiratory Protection

Use personal respiratory equipment as required.

Hand Protection

Use personal gloves as required.

Eye Protection

Use personal eye protection as required.

Skin and Body Protection

Use personal protective clothing and face protection as required.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State: liquid

Form: liquid (viscous liquid)

Colour: gold

Odour

Slight odor

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: No data available
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: No data available
Decomposition: No data available
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 Sensitization: No data available
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: Disposal should be in accordance with applicable regulations and standards by the respective local governments.
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.

### Section 14 – TRANSPORT INFORMATION

#### International Regulations

| Regulatory Information by Sea | Not applicable |
| Marine Pollutant Transport in bulk according to MARPOL 73/78, Annex II, and the IBC code | Not applicable |

#### Regulations in Japan

| Regulatory Information by Air | Not applicable |
| Regulatory Information by Road or Rail | Not applicable |
| Regulatory Information by Sea | Not applicable |
| Marine Pollutant Transport in bulk according to MARPOL 73/78, Annex II, and the IBC code | Not applicable |

### Emergency Response 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 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 2017/12/12

Section 1 - CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier  WPB20-Z
Product Code  WPB20Z0002
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
Recommended Use and Restriction on Use  ink


Section 2 - HAZARDS IDENTIFICATION

GHS Classification

Health Hazards  Acute toxicity (Inhalation: vapour) Category 4
Acute toxicity (Inhalation: dust and mist) Category 4
Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2A
Specific target organ toxicity (single exposure) Category 1 (blood, kidney, central nervous system)
Specific target organ toxicity (repeated exposure) Category 2 (lung)
Other hazards than mentioned above are Not applicable or Classification not possible.

GHS Label Elements

Symbols

Signal Word  Danger
Hazard Statements  H315 Causes skin irritation
H319 Causes serious eye irritation
H332 Harmful if inhaled
H370 Causes damage to blood, kidney, central nervous system
H373 May cause damage to lung through prolonged or repeated exposure

Precautionary Statements

Prevention  Avoid breathing dust and fume. (P261)
Precautionary Statements  Wear protective gloves. (P280)
Wear eye protection and face protection. (P280)
Do not breathe mist, vapours and spray. (P260)
Avoid breathing mist, vapours and spray. (P261)
Response
Precautionary
Statements

Storage
Precautionary
Statements

Disposal
Precautionary
Statements

Section 3 – COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Distinction of Substance or Mixture</th>
<th>Chemical Name or Generic Name</th>
<th>Concentration or Its Ranges</th>
<th>Formula</th>
<th>ENCS No./ISHL No.</th>
<th>ENCS No.</th>
<th>ISHL No.</th>
<th>CAS RN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mixture</td>
<td>Ethylene glycol</td>
<td>10%</td>
<td>HOCH2CH2OH</td>
<td>(2)–230</td>
<td>Existing</td>
<td></td>
<td>107–21–1</td>
</tr>
<tr>
<td></td>
<td>Glycerin</td>
<td>10%</td>
<td>CH2OHCH(OH)CH2OH</td>
<td>(2)–242</td>
<td>Existing</td>
<td></td>
<td>56–81–5</td>
</tr>
<tr>
<td></td>
<td>Aluminum</td>
<td>2.7%</td>
<td>Al</td>
<td>Unknown</td>
<td>Unknown</td>
<td></td>
<td>7429–90–5</td>
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<tr>
<td></td>
<td>Propylene glycol monomethyl ether</td>
<td>1.35%</td>
<td></td>
<td>(2)–404,(7)–97</td>
<td>Existing</td>
<td></td>
<td>107–98–2</td>
</tr>
</tbody>
</table>

Impurities and/or Stabilizing Additives which Contribute to the

Section 4 – FIRST AID MEASURES

Inhalation
Get medical advice and attention if you feel unwell.

Skin Contact
Wash with soap and water.

Wash hand thoroughly after handling.(P264)
Wash eye thoroughly after handling.(P264)
Do not eat, drink or smoke when using this product.(P270)
Use only outdoors or in a well-ventilated area.(P271)

IF ON SKIN: Wash with plenty of soap and water.(P302+P352)

If skin irritation occurs: Get medical advice and attention.(P332+P313)
Take off contaminated clothing and wash it before reuse.(P362+P364)
IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.(P304+P340)
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 exposed or concerned: Call a POISON CENTER/doctor/... (P308+P311)
Call a doctor if you feel unwell. (P312)
Get medical advice and attention if you feel unwell. (P314)
Specific treatment. (P321)
If eye irritation persists: Get medical advice and attention. (P337+P313)
Store locked up. (P405)

Dispose of contents and container in accordance with local, regional and national regulations (to be specified). (P501)
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
Small fires: Dry chemical, CO2, water spray or regular foam.

Section 6 - ACCIDENTAL RELEASE MEASURES
Environmental Precautions
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
Vacuum or sweep up material and place in a disposal container.
Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container.
After removal, flush contaminated area thoroughly with water.
Prevention Measures for Secondary Accidents
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
Wash hand thoroughly after handling.
Avoid swallowing.
Avoid contact with eyes.
Protect from high temperature and direct sunlight.
Prevents Handling of Incompatible Substances or Mixtures
Refer to ”Section 10 - STABILITY AND REACTIVITY”.

Storage Precautionary Statements
Conditions for Safe Storage
Have containers keep away from direct sunlight and heat.
Keep away from heat.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION
Engineering Controls
Good general ventilation should be sufficient to control airborne levels.

Personal Protective Equipment
Respiratory Protection
Use personal respiratory equipment as required.
Hand Protection
Use personal gloves as required.
Eye Protection
Use personal eye protection as required.
**Skin and Body Protection**

Use personal protective clothing and face protection as required.

### Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Use personal protective clothing and face protection as required.</td>
</tr>
<tr>
<td>Physical State</td>
<td>liquid</td>
</tr>
<tr>
<td>Form</td>
<td>liquid (viscous liquid)</td>
</tr>
<tr>
<td>Colour</td>
<td>silver</td>
</tr>
<tr>
<td>Odour</td>
<td>slight odor</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
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<td>Melting Point/Freezing Point</td>
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</tr>
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<td>Kinematic viscosity</td>
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### Section 10 – STABILITY AND REACTIVITY

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<th>Property</th>
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<td>Reactivity</td>
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</tr>
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<td>Chemical stability</td>
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<td>Possibility of Hazardous Reaction</td>
<td>No data available</td>
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<tr>
<td>Conditions to Avoid</td>
<td>No data available</td>
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<tr>
<td>Incompatible Substances or Mixtures</td>
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</tr>
<tr>
<td>Hazardous Decomposition Products</td>
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</tr>
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</table>

### Section 11 – TOXICOLOGICAL INFORMATION

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<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>Acute Toxicity</td>
<td>No information available</td>
</tr>
<tr>
<td>Skin Corrosion/Irritation</td>
<td>No data available</td>
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<tr>
<td>Aspiration Hazard</td>
<td>No data available</td>
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</tbody>
</table>
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 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.
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.

Section 14 – TRANSPORT INFORMATION
International Regulations Regulatory Information by Sea Not applicable
Marine Pollutant Not applicable
Transport in bulk according to MARPOL 73/78, Annex II, and the IBC code Not applicable
Regulatory Information by Air Not applicable
Regulations in Japan Regulatory Information by Road or Rail Not applicable
Regulatory Information by Sea Marine Pollutant Not applicable
Transport in bulk according to MARPOL 73/78, Annex II, and the IBC code Not applicable
Regulatory Information by Air Not applicable

Emergency Response 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
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.
Other Property Not applicable