Safety Data Sheet (SDS)

Preparation Date 2013/11/28
Revision Date 2016/11/14

Section 1 - CHEMICALS AND COMPANY IDENTIFICATION
Chemical Identifier WPB35-A
Product Code WPB35A0001
Company Name PENTEL CO., LTD.
Address 7-2, KOAMICHO, NIHONBASHI, CHUO-KU, TOKYO
Company Contact QUALITY ASSURANCE DEPARTMENT I
Phone Number 048-928-6668
Fax Number 048-928-9190
Mail Address hinp@pentel.co.jp
Emergency Phone 048-928-6668
Number
Recommended Use ink
and Restriction on Use KL257-A, KL5-A, KL7-A, LRP5-A, LRP7-A

Section 2 - HAZARDS IDENTIFICATION
GHS Classification
Health Hazards Serious eye damage/eye irritation Category Carcinogenicity Category 2
Specific target organ toxicity (single expo Category 1 (respiratory apparatus, heart, kidney, central nervous system)
Specific target organ toxicity (repeated exposure Category 1 (respiratory apparatus, heart, central nervous system)
Specific target organ toxicity (repeated exposure Category 2 (liver, kidney, lung)
Environmental Hazards Hazard to the aquatic environment (acute hazard) Category 2
Hazard to the aquatic environment (long-term hazard) Category 2
Other hazards than mentioned above are Not applicable or No data available.

GHS Label Elements

Symbols

Signal Word Danger

Hazard Statements
H320 Causes eye irritation
H351 Suspected of causing cancer
H370 Causes damage to respiratory apparatus, heart, kidney, central nervous system
H372 Causes damage to respiratory apparatus, heart, central nervous system through prolonged or repeated exposure
H373 May cause damage to liver, kidney, lung through prolonged or repeated exposure
H411 Toxic to aquatic life with long lasting

Precautionary Statements
Prevention
Precautionary
Statements

Do not breathe mist, vapours and spray.(P260)
Avoid breathing gas.(P261)
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)
Avoid release to the environment.(P273)

Response
Precautionary
Statements

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: Call a doctor.(P307+P311)
Get medical advice and attention if you feel unwell.(P314)
Specific treatment:(P321)
If eye irritation persists: Get medical advice and attention.(P337+P313)
Collect spillage.(P391)
Store locked up.(P405)

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>C. I. Pigment Black 7</td>
<td>4.98%</td>
<td></td>
<td>(5)–3328,(5)–5222</td>
<td>1333–86–4</td>
</tr>
<tr>
<td>Ethylene Glycol</td>
<td>13.3%</td>
<td>HOCH2CH2OH</td>
<td>(2)–230</td>
<td>Existing</td>
</tr>
<tr>
<td>Triethanolamine</td>
<td>0.47%</td>
<td>N(CH2CH2OH)3</td>
<td>(2)–308</td>
<td>Existing</td>
</tr>
</tbody>
</table>

Impurities and/or Stabilizing Additives which Contribute to the

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.
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. 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, 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
Avoid contact with eyes.
Wash hand thoroughly after handling. Avoid swallowing. 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

Technical Measures
The storage facility should be provided with necessary lighting, lighting equipment, and ventilator to store and handle dangerous goods. Refer to "Section 10 – STABILITY AND REACTIVITY".
Have containers keep away from direct sunlight and heat. Keep away from heat. Store locked up.

Material Used in Packaging/Container(s)
Packaging materials and containers are not legislated, but use sturdy and closed-type containers.
Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>Personal Protective Equipment</th>
<th>Respiratory Protection</th>
<th>Good general ventilation should be sufficient to control airborne levels.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Hand Protection</td>
<td>Use personal respiratory equipment as required.</td>
</tr>
<tr>
<td></td>
<td>Eye Protection</td>
<td>Use personal gloves as required.</td>
</tr>
<tr>
<td></td>
<td>Skin and Body Protection</td>
<td>Use personal eye protection as required.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Use personal protective clothing and face protection as required.</td>
</tr>
</tbody>
</table>

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Physical State</th>
<th>liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odour</td>
<td>Form</td>
<td>liquid (viscous liquid)</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>Colour</td>
<td>black</td>
</tr>
<tr>
<td>pH</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melting Point/Freezing Point</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Initial Boiling Point and Boiling Ranges</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flash Point</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas) Limits</td>
<td>Upper Limit</td>
<td></td>
</tr>
<tr>
<td>Vapour Pressure</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapour Density</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Specific Gravity (Density)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Partition Coefficient : n-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Octanol/Water</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Auto-Ignition</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Decomposition</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temperature</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Viscosity</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kinematic viscosity</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Section 10 - STABILITY AND REACTIVITY

| Reactivity                          |                        |                                                                           |
| Chemical stability                  |                        |                                                                           |
| Possibility of Hazardous Reaction   |                        |                                                                           |
| Conditions to Avoid                 |                        |                                                                           |
| Incompatible Substances or Mixtures |                        |                                                                           |
| Hazardous Decomposition Products    |                        |                                                                           |

Section 11 - TOXICOLOGICAL INFORMATION

| Acute Toxicity                      |                        |                                                                           |
| Skin Corrosion/Irritation           |                        |                                                                           |
| Serious eye damage/eye irritation    |                        |                                                                           |
| Respiratory or Skin Sensitization   |                        |                                                                           |
| Germ Cell Mutagenicity              |                        |                                                                           |
| Carcinogenicity                     |                        |                                                                           |
| Reproductive Toxicity               |                        |                                                                           |
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
Hazard to the aquatic environment (acute) No data available
Hazard to the aquatic environment (long-term hazard) No data available
Hazard 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.
In case of disposal of empty containers, remove the content thoroughly.

Contaminated Container and Packaging

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.
<table>
<thead>
<tr>
<th>Section 16 – OTHER INFORMATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Information Contact</td>
</tr>
<tr>
<td>Other Property</td>
</tr>
</tbody>
</table>

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)

Section 1 - CHEMICALS AND COMPANY IDENTIFICATION
Chemical Identifier: WPB35-B
Product Code: WPB35B0001
Company Name: PENTEL CO., LTD.
Address: 7-2, KOAMICHO, NIHONBASHI, CHUO-KU, TOKYO
Company Contact: QUALITY ASSURANCE DEPARTMENT I
Phone Number: 048-928-6668
Fax Number: 048-928-9190
Mail Address: hinpo@pentel.co.jp
Emergency Phone: 048-928-6668
Number
Recommended Use: ink
and Restriction on
Use: KL257-B, KLR5-B, KLR7-B, LRP5-B, LRP7-B

Section 2 - HAZARDS IDENTIFICATION
GHS Classification
Health Hazards: Serious eye damage/eye irritation Category
Specific target organ toxicity (single expo
Category 1 (respiratory
apparatus, heart, kidney, central nervous syst
Specific target organ toxicity (repeated ex
Category 1 (respiratory apparatus, heart, cent
nervous system)
Specific target organ toxicity (repeated ex
Category 2 (liver, kidney)
Environmental Hazards: Hazard to the aquatic environment (acute ha
Category 2
Hazard to the aquatic environment (long-term hazard) Category 2
Other hazards than mentioned above are Not applicable or No data available.

GHS Label Elements
Symbols

Signal Word: Danger
Hazard Statements: H320 Causes eye irritation
H370 Causes damage to respiratory apparatus, heart, kidney, central nervous syst
H372 Causes damage to respiratory apparatus, heart, central nervous system thro
prolonged or repeated exposure
H373 May cause damage to liver, kidney thro
prolonged or repeated exposure
H411 Toxic to aquatic life with long lastin

Precautionary Statements
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>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene Glycol</td>
<td>15.58%</td>
<td>HOCH2CH2OH</td>
<td>(2)–230</td>
<td>Existing 107–21–1</td>
</tr>
<tr>
<td>Triethanolamine</td>
<td>0.33%</td>
<td>N(CH2CH2OH)3</td>
<td>(2)–308</td>
<td>Existing 102–71–6</td>
</tr>
</tbody>
</table>

Impurities and/or Stabilizing Additives which Contribute to the mixture

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.

Eye Contact
Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
Ingestion

When the ocular stimulation lasts, Seek medical treatment and advice.
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
Avoid contact with eyes.
Wash hand thoroughly after handling.
Avoid swallowing.
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
Technical Measures
The storage facility should be provided with necessary lighting, lighting equipment, and ventilator to store and handle dangerous goods.
Have containers keep away from direct sunlight and heat.
Keep away from heat.
Store locked up.
Material Used in Packaging/Container
Packaging materials and containers are not legislated, but use sturdy and closed-type containers.

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

Personal Protective Equipment
Respiratory Protection
Use necessary personal protective equipment.
Hand Protection
- Use personal gloves as required.

Eye Protection
- Use personal eye protection as required.

Skin and Body Protection
- Use personal face protection as required.

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

| Appearance | Physical State | liquid |
| Form | liquid (viscous liquid) |
| Colour | red |
| Odour | odorless |
| 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 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

Section 12 – ECOLOGICAL INFORMATION
Hazard to the aquatic environment (acute)
Hazard to the aquatic environment (long-term hazard)
Hazard to the ozone layer

No data available

Section 13 – DISPOSAL CONSIDERATIONS
Residual Waste
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. In case of disposal of empty containers, remove the content thoroughly.

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
Regulatory Information by Air

Regulatory Information by Road or Rail
Regulatory Information by Sea
Marine Pollutant Transport in bulk according to MARPOL 73/78, Annex II, and the IBC code
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
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 2013/11/28
Revision Date 2016/11/14

Section 1 - CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier: WPB35-C
Product Code: WPB35C0001
Company Name: PENTEL CO., LTD.
Address: 7-2, KOAMIKIO, NIONBASHI, CHUO-KU, TOKYO
Company Contact: QUALITY ASSURANCE DEPARTMENT I
Phone Number: 048-928-6668
Fax Number: 048-928-9190
Mail Address: hinpo@pentel.co.jp
Emergency Phone: 048-928-6668
Number
Recommended Use: ink
Use: KL257-C, KLR5-C, KLR7-C, LRP5-C, LRP7-C

Section 2 - HAZARDS IDENTIFICATION

GHS Classification

Health Hazards: Serious eye damage/eye irritation Category
Specific target organ toxicity (single exposure) Category 1 (respiratory apparatus, heart, kidney, central nervous system)
Specific target organ toxicity (repeated exposure) Category 1 (respiratory apparatus, heart, central nervous system)
Specific target organ toxicity (repeated exposure) Category 2 (liver, kidney)

Environmental Hazards: Hazard to the aquatic environment (acute hazard) Category 2
Hazard to the aquatic environment (long-term hazard) Category 2
Other hazards than mentioned above are Not applicable or No data available.

GHS Label Elements

Symbols

Signal Word: Danger
Hazard Statements:
H320 Causes eye irritation
H370 Causes damage to respiratory apparatus, heart, kidney, central nervous system
H372 Causes damage to respiratory apparatus, heart, central nervous system through prolonged or repeated exposure
H373 May cause damage to liver, kidney through prolonged or repeated exposure
H411 Toxic to aquatic life with long lasting effect

Precautionary Statements
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>
</tr>
</thead>
<tbody>
<tr>
<td>C. I. Pigment Blue15</td>
<td>4.98%</td>
<td>(5)−3299,(5)−3300,(5)−5216</td>
<td>Existing</td>
<td>147−14−8</td>
</tr>
<tr>
<td>Ethylene Glycol</td>
<td>18.55%</td>
<td>HOCH2CH2OH</td>
<td>(2)−230</td>
<td>Existing</td>
</tr>
<tr>
<td>Triethanolamine</td>
<td>0.47%</td>
<td>N(CH2CH2OH)3</td>
<td>(2)−308</td>
<td>Existing</td>
</tr>
</tbody>
</table>

Impurities and/or Stabilizing Additives which Contribute to the

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.
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.

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
Avoid contact with eyes. Wash hand thoroughly after handling. Avoid swallowing. Protect from high temperature and direct sunlight. Refer to “Section 10 - STABILITY AND REACTIVITY”.

Prevents Handling of Incompatible Substances or Mixtures

Storage Precautionary Statements
The storage facility should be provided with necessary lighting, lighting equipment, and ventilator to store and handle dangerous goods. Refer to “Section 10 - STABILITY AND REACTIVITY”. Have containers keep away from direct sunlight and heat. Keep away from heat. Store locked up.

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.

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.
Use personal gloves as required.
Use personal eye protection as required.
Use personal face protection as required.

### Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Physical State</th>
<th>Form</th>
<th>Colour</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid</td>
<td>Liquid (viscous liquid)</td>
<td></td>
<td>Blue</td>
</tr>
</tbody>
</table>

- Odour: Odorless
- 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 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

Section 12 – ECOLOGICAL INFORMATION

Hazard to the aquatic environment (acute)
No data available

Hazard to the aquatic environment (long-term hazard)
No data available

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

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
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

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 2013/11/28
Revision Date 2016/11/14

Section 1 - CHEMICALS AND COMPANY IDENTIFICATION
Chemical Identifier WPB35-D
Product Code WPB35D0002
Company Name PENTEL CO., LTD.
Address 7-2, KOAMICHO, NIHONBASHI, CHUO-KU, TOKYO
Company Contact QUALITY ASSURANCE DEPARTMENT 1
Phone Number 048-928-6668
Fax Number 048-928-9190
Mail Address hinpo@pentel.co.jp
Emergency Phone 048-928-6668
Number
Recommended Use ink
and Restriction on Use

Section 2 - HAZARDS IDENTIFICATION
GHS Classification
Health Hazards Serious eye damage/eye irritation Category
Specific target organ toxicity (single expo Category 1 (respiratory
apparatus, heart, kidney, central nervous syst
Specific target organ toxicity (repeated ex Category 1 (respiratory apparatus, heart, cent
nervous system)
Specific target organ toxicity (repeated ex Category 2 (liver, kidney)
Environmental Hazard to the aquatic environment (acute ha
Category 2
Hazard to the aquatic environment (long-ter hazard) Category 2
Other hazards than mentioned above are Not
applicable or No data available.

GHS Label Elements
Symbols

Signal Word Danger
Hazard Statements
H320 Causes eye irritation
H370 Causes damage to respiratory
apparatus, heart, kidney, central nervous syst
H372 Causes damage to respiratory
apparatus, heart, central nervous system thro
prolonged or repeated exposure
H373 May cause damage to liver, kidney thro
prolonged or repeated exposure
H411 Toxic to aquatic life with long lastin

Precautionary Statements
Precautionary Statements

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

**Response**
IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.(P304+P340)

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

**Disposal**
Use only outdoors or in a well-ventilated area.(P271)

Avoid breathing gas.(P261)
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)

Avoid release to the environment.(P273)

**Special Instructions:**
- 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.(P314)
- Specific treatment.(P321)
- If eye irritation persists: Get medical advice and attention.(P337+P313)
- Collect spillage.(P391)
- Store locked up.(P405)

---

**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>C. I. Pigment Blue1 5:3</td>
<td>1.07%</td>
<td>C14H14N2O3</td>
<td>(5)–3299,(5)–3300,(5)–5216</td>
<td>Existing</td>
</tr>
<tr>
<td>Ethylene Glycol</td>
<td>18.42%</td>
<td>HOCH2CH2OH</td>
<td>(2)–230</td>
<td>Existing</td>
</tr>
<tr>
<td>Triethanolamine</td>
<td>0.94%</td>
<td>N(CH2CH2OH)3</td>
<td>(2)–308</td>
<td>Existing</td>
</tr>
</tbody>
</table>

Impurities and/or Stabilizing Additives which Contribute to the

---

**Section 4 – FIRST AID MEASURES**

**Inhalation**
If breathing is difficult, move affected person to the open air. Keep him or her at rest to allow getting medical advice and attention if you feel unwell.

**Skin Contact**
Wash with plenty of soap and water.
Eye Contact

If skin irritation or rash occurs, get medical advice and attention.
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
Avoid contact with eyes.
Wash hand thoroughly after handling.
Avoid swallowing.
Protect from high temperature and direct sunlight.
Refer to “Section 10 – STABILITY AND REACTIVITY”.

Prevents Handling of Incompatible Substances or Mixtures

Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Storage Precautionary Statements Technical Measures
The storage facility should be provided with necessary lighting, lighting equipment, and ventilator to store and handle dangerous goods. Refer to “Section 10 – STABILITY AND REACTIVITY”.
Have containers keep away from direct sunlight and heat.
Store locked up.

Material Used in Packaging/Containers
Packaging materials and containers are not legislated, but use sturdy and closed--type containers.
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 face protection as required.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance
Physical State: liquid

Form: liquid (viscous liquid)

Colour: green

Odour
odorless

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

Flammability or Explosive Limits

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

Compatible 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
<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>ECOLOGICAL INFORMATION</td>
<td>Hazard to the aquatic environment (acute) No data available</td>
</tr>
<tr>
<td>12</td>
<td>ECOLOGICAL INFORMATION</td>
<td>Hazard to the aquatic environment (long-term hazard) No data available</td>
</tr>
<tr>
<td>13</td>
<td>DISPOSAL CONSIDERATIONS</td>
<td>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.</td>
</tr>
<tr>
<td>13</td>
<td>DISPOSAL CONSIDERATIONS</td>
<td>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.</td>
</tr>
<tr>
<td>14</td>
<td>TRANSPORT INFORMATION</td>
<td>International Regulations Regulatory Information by Sea Not applicable Transport in bulk according to MARPOL 73/78,Annex II,and the IBC code Not applicable Regulatory Information by Air Not applicable</td>
</tr>
<tr>
<td>14</td>
<td>TRANSPORT INFORMATION</td>
<td>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</td>
</tr>
<tr>
<td>15</td>
<td>REGULATORY INFORMATION</td>
<td>Emergency Response Not applicable Guide Number</td>
</tr>
</tbody>
</table>

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
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Section 1 - CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier: WPB35-V
Product Code: WPB35V0002
Company Name: PENTEL CO., LTD.
Address: 7-2, KOAMICHO, NIHONBASHI, CHUO-KU, TOKYO
Company Contact: QUALITY ASSURANCE DEPARTMENT I
Phone Number: 048-928-6668
Fax Number: 048-928-9190
Mail Address: hinpo@pentel.co.jp
Emergency Phone: 048-928-6668

Recommended Use: Ink and restriction on use

Use: KL257, KLR5, KLR7, KFRI7-V

Section 2 - HAZARDS IDENTIFICATION

GHS Classification

Health Hazards: Serious eye damage/eye irritation Category 1
Specific target organ toxicity (single exposure) Category 1 (respiratory apparatus, heart, kidney, central nervous syst)
Specific target organ toxicity (repeated exposure) Category 1 (respiratory apparatus, heart, central nervous system)

Environmental Hazards: Hazard to the aquatic environment (acute hazard) Category 2
Hazard to the aquatic environment (long-term hazard) Category 2
Other hazards than mentioned above are not applicable or no data available.

GHS Label Elements

Symbols:

Signal Word: Danger

Hazard Statements:
H320 Causes eye irritation
H370 Causes damage to respiratory apparatus, heart, kidney, central nervous syst
H372 Causes damage to respiratory apparatus, heart, central nervous system through prolonged or repeated exposure
H411 Toxic to aquatic life with long lasting effects

Precautionary Statements

Prevention:
Do not breathe mist, vapours and spray. (P260)
Wash hands thoroughly after handling. (P264)
Wash eye thoroughly after handling. (P264)

Precautionary Statements:
Avoid breathing gas. (P261)

Response

Precautionary Statements

Storage Precautionary Statements

Disposal 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>15.51%</td>
<td>HOCH2CH2OH</td>
<td>Existing</td>
<td>107–21–1</td>
</tr>
<tr>
<td>Triethanolamine</td>
<td>0.52%</td>
<td>N(CH2CH2OH)3</td>
<td>Existing</td>
<td>102–71–6</td>
</tr>
</tbody>
</table>

Impurities and/or Stabilizing Additives which Contribute to the mixture

Disposal

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

Section 4 – FIRST AID MEASURES

Inhalation
If breathing is difficult, move affected person to the open air. Keep him or her at rest to allow recovery.
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.

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

Do not eat, drink or smoke when using this product. (P270)
Use only outdoors or in a well-ventilated area. (P271)
Avoid release to the environment. (P273)

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: Call a doctor. (P307+P311)
Get medical advice and attention if you feel unwell. (P314)
Specific treatment. (P321)

IF eye irritation persists: Get medical advice and attention. (P337+P313)
Collect spillage. (P391)

Store locked up. (P405)
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

Avoid contact with eyes.
Wash hand thoroughly after handling.
Avoid swallowing.
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

Technical Measures

The storage facility should be provided with necessary lighting, lighting equipment, and ventilator to store and handle dangerous goods. Refer to “Section 10 – STABILITY AND REACTIVITY”.

Have containers keep away from direct sunlight and heat.
Store locked up.

Material Used in Packaging/Containers

Packaging materials and containers are not legislated, but use sturdy and closed-type containers.

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 face protection as required.

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State: liquid
Form: liquid (viscous liquid)
Colour: purple
<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odour</td>
<td>odorless</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<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>
</tr>
<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 Lower Limit</td>
<td>No data available</td>
</tr>
<tr>
<td>Upper Limit</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour Pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour Density</td>
<td>No data available</td>
</tr>
<tr>
<td>Specific Gravity (Density)</td>
<td>No data available</td>
</tr>
<tr>
<td>Partition Coefficient : n−</td>
<td>No data available</td>
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<tr>
<td>Octanol/Water</td>
<td>No data available</td>
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<tr>
<td>Auto-Ignition</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition</td>
<td>No data available</td>
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<td>Temperature</td>
<td>No data available</td>
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<tr>
<td>Viscosity</td>
<td>No data available</td>
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<td>Kinematic viscosity</td>
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<tr>
<td>Flammability or Explosive Limits</td>
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**Section 10 - STABILITY AND REACTIVITY**

<table>
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<th>Property</th>
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<tbody>
<tr>
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<td>Possibility of Hazardous Reaction</td>
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<tr>
<td>Conditions to Avoid</td>
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<tr>
<td>Incompatible Substances or Mixtures</td>
<td>No data available</td>
</tr>
<tr>
<td>Hazardous Decomposition Products</td>
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**Section 11 - TOXICOLOGICAL INFORMATION**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<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 or Skin Sensitization</td>
<td>No data available</td>
</tr>
<tr>
<td>Germ Cell Mutagenicity</td>
<td>No data available</td>
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<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>
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<tr>
<td>Specific target organ toxicity (repeated exposure)</td>
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<td>Aspiration Hazard</td>
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**Section 12 - ECOLOGICAL INFORMATION**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
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<tbody>
<tr>
<td>Hazard to the aquatic environment (acute)</td>
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</tr>
<tr>
<td>Hazard to the aquatic environment (long-term hazard)</td>
<td>No data available</td>
</tr>
</tbody>
</table>
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.
In case of disposal of empty containers, remove the content thoroughly.

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
Regulatory Information by Air

Regulations in Japan
Regulatory Information by Road or Rail
Regulatory Information by Sea
Marine Pollutant Transport in bulk according to MARPOL 73/78,Annex II ,and the IBC code
Regulatory Information by Air

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
No data available