Safety Data Sheet (SDS)

Section 1 – CHEMICALS AND COMPANY IDENTIFICATION
Chemical Identifier WPB37–A
Product Code WPB37A0001
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 ink
Recommended Use and Restriction on Use BLP75–A, LRP5–A

Section 2 – HAZARDS IDENTIFICATION
GHS Classification
Health Hazards
Acute toxicity (Inhalation: dust and mist) Category 4
Serious eye damage/eye irritation Category 2A
Carcinogenicity Category 2
Specific target organ toxicity (single exposure) Category 2(blood,kidney,central nervous system)
Specific target organ toxicity (single exposure) Category 3(narcotic effect,respiratory tract irritation)
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
![Symbols]

Signal Word Warning
Hazard Statements
H332 Harmful if inhaled
H335 May cause respiratory irritation
H336 May cause drowsiness or dizziness
H319 Causes serious eye irritation
H351 Suspected of causing cancer
H371 May cause damage to blood,kidney,central nervous system
H373 May cause damage to liver, respiratory apparatus,kidney through prolonged or repeated exposure

Precautionary Statements
Prevention | Obtain special instructions before use.(P201)
Precautionary Statements | Do not handle until all safety precautions have been read and understood.(P202)
| Avoid breathing mist, vapours and spray.(P261)
| Wash hand thoroughly after handling.(P264)
| Wash eye thoroughly after handling.(P264)
| Do not eat, drink or smoke when using this product.(P270)
| Wear protective gloves.(P280)
| Wear eye protection and face protection.(P280)
Response | IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.(P304+P340)
| Get medical advice and attention if you feel unwell.(P314)
| IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.(P305+P351+P338)
| If eye irritation persists: Get medical advice and attention.(P337+P313)
Storage | Store locked up.(P405)
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 | 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>
</tr>
</thead>
<tbody>
<tr>
<td>C.I. Pigment Black 7</td>
<td>5%</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
<td>1333–86–4</td>
</tr>
<tr>
<td>Diethylene Glycol</td>
<td>2.5%</td>
<td>HOCH2CH2OH</td>
<td>(2)–415</td>
<td>Existing</td>
<td>111–46–6</td>
</tr>
<tr>
<td>2,4-Pentanediol, 2-methyl-</td>
<td>15%</td>
<td>HOCH2CH2OH</td>
<td>(2)–240</td>
<td>Existing</td>
<td>107–41–5</td>
</tr>
<tr>
<td>Ethylene Glycol</td>
<td>5.6%</td>
<td>HOCH2OH</td>
<td>(2)–230</td>
<td>Existing</td>
<td>107–21–1</td>
</tr>
<tr>
<td>Glycerol</td>
<td>0.993%</td>
<td>CH2OHCH2OH</td>
<td>(OH)C H2OH</td>
<td>(2)–242</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**
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".
  - Avoid contact with eyes.
  - Wash hand thoroughly after handling.
  - Avoid swallowing.
  - Protect from high temperature and direct sunlight.
  - Refer to "Section 10 – STABILITY AND INCOMPATIBILITY / REACTIVITY".

**Precautions for Safe Handling**
- Prevents Handling of Incompatible Substances or Mixtures
- Specific Hygiene Measures
- Wash hand thoroughly after handling.

**Storage Precautionary Statements**
- **Conditions for Safe Storage**
  - Have containers keep away from direct sunlight and heat.
  - Keep away from 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 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>Liquid</td>
</tr>
<tr>
<td>Physical State</td>
<td>Liquid (viscous liquid)</td>
</tr>
<tr>
<td>Form</td>
<td>Liquid (viscous liquid)</td>
</tr>
<tr>
<td>Colour</td>
<td>Black</td>
</tr>
<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 Limits</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- 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>
<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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<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>
<td>No data available</td>
</tr>
<tr>
<td>Incompatible Substances or Mixtures</td>
<td>No data available</td>
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<tr>
<td>Hazardous Decomposition Products</td>
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</tr>
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</table>

Section 11 – TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Toxicity</td>
<td>No information available</td>
</tr>
<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>
</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.

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

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

**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

**Emergency Response Guide Number**

**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)

Section 1 - CHEMICALS AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Chemical Identifier</th>
<th>WPB37-B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Code</td>
<td>WPB37B0001</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</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 Number</td>
<td>03–5695–7210</td>
</tr>
</tbody>
</table>

Recommended Use

ink

Restriction on Use

BLP75–B, LRP5–BX

Section 2 – HAZARDS IDENTIFICATION

GHS Classification

Health Hazards

- Acute toxicity (Inhalation: dust and mist) Category 4
- Serious eye damage/eye irritation Category 2A
- Specific target organ toxicity (single exposure) Category 2(blood,kidney,central nervous system)
- Specific target organ toxicity (repeated exposure) Category 2(liver,kidney)
- 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
- H351 Suspected of causing cancer
- H373 May cause damage to liver,kidney through prolonged or repeated exposure
- H371 May cause damage to blood,kidney,central nervous system

Precautionary Statements

Prevention

- Obtain special instructions before use.(P201)

Precautionary Statements

- Do not handle until all safety precautions have been read and understood.(P202)
- Avoid breathing mist, vapours and spray.(P261)
- Wash hand thoroughly after handling.(P264)
- Wash eye thoroughly after handling.(P264)
- Do not eat, drink or smoke when using this product.(P270)
Wear protective gloves.(P280)
Wear eye protection and face protection.(P280)

Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.(P305+P351+P338)
If eye irritation persists: Get medical advice and attention.(P337+P313)
Get medical advice and attention if you feel unwell.(P314)

Storage
Store locked up.(P405)

Precautionary Statements

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
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>2,4-Pentanediol, 2- methyl-</td>
<td>10%</td>
<td>(2)−240</td>
<td>Existing</td>
<td>107−41−5</td>
</tr>
<tr>
<td>Glycerol</td>
<td>1%</td>
<td>CH2OHCH (OH)C H2OH</td>
<td>(2)−242</td>
<td>Existing</td>
</tr>
<tr>
<td>Diethylene Glycol</td>
<td>2.5%</td>
<td>HOCH2CH 2OCH2C H2OH</td>
<td>(2)−415</td>
<td>Existing</td>
</tr>
<tr>
<td>Ethylene Glycol</td>
<td>5.6%</td>
<td>HOCH2CH 2OH</td>
<td>(2)−230</td>
<td>Existing</td>
</tr>
</tbody>
</table>

Impurities and/or Stabilizing Additives which Contribute to the
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.
Get medical advice and attention if you feel unwell.

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

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 Conditions for Safe Storage

Have containers keep away from direct sunlight and heat. Keep away from 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 protective clothing and 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  
Flammability (solid, gas)  
Flammability or Explosive Lower Limit Limits  
Upper Limit  
Vapour Pressure  
Vapour Density  
Specific Gravity (Density)  
Partition Coefficient : n-Octanol/Water  
Auto-Ignition  
Decomposition  
Temperature  
Viscosity  
Kinematic viscosity

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 Sensitization  
Skin Sensitization  
Germ Cell Mutagenicity  
Carcinogenicity  
Reproductive Toxicity  
Specific target organ toxicity (single exposure)  
Specific target organ toxicity (repeated exposure)  
Aspiration Hazard

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

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.
Do not release waste liquid containing the product and used water for cleansing into rivers, etc., or do not discharge the concerned wastes intact for reclamation. When commissioning the disposal to a disposal company, notify the danger and toxicity thoroughly to the company.

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
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

Emergency Response
Guide Number

Section 15 – REGULATORY INFORMATION
Regulatory information with regard to this product in your country or in your region should be examined by your own responsibility.

Section 16 – OTHER INFORMATION

Information Contact
Other Property

No information available
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Safety Data Sheet (SDS)

Preparation Date 2017/03/31
Revision Date 2018/09/21

Section 1 - CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier  WPB37-C
Product Code  WPB37C0001
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

BLP75-C, LRP5-C

Section 2 - HAZARDS IDENTIFICATION

GHS Classification

Health Hazards

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

GHS Label Elements

Symbols

Warning
H319 Causes serious eye irritation
H332 Harmful if inhaled
H371 May cause damage to blood,kidney,central nervous system
H373 May cause damage to liver,kidney through prolonged or repeated exposure
H351 Suspected of causing cancer

Precautionary Statements

Obtain special instructions before use.(P201)

Prevention
Do not handle until all safety precautions have been read and understood.(P202)
Avoid breathing mist, vapours and spray.(P261)
Wash hand thoroughly after handling. (P264)
Wash eye thoroughly after handling. (P264)
Do not eat, drink or smoke when using this product. (P270)
Wear protective gloves. (P280)
Wear eye protection and face protection. (P280)

Response

Precautionary Statements

Storage

Precautionary Statements

Disposal

Precautionary Statements

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Table: 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 Blue 15</td>
<td>4.545%</td>
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<td>(5) – 3299</td>
<td>147–14–8</td>
</tr>
<tr>
<td>Diethylene Glycol</td>
<td>2%</td>
<td>HOCH2CH</td>
<td>(2) – 415</td>
<td>111–46–6</td>
</tr>
<tr>
<td>2,4-Pentanediol, 2-methyl-</td>
<td>20%</td>
<td>2OCH2C H2OH</td>
<td>(2) – 240</td>
<td>107–41–5</td>
</tr>
<tr>
<td>Ethylene Glycol</td>
<td>5.6%</td>
<td>HOCH2CH</td>
<td>(2) – 230</td>
<td>107–21–1</td>
</tr>
<tr>
<td>Glycerol</td>
<td>0.993%</td>
<td>CH2OHCH (OH)/C H2OH</td>
<td>(2) – 242</td>
<td>56–81–5</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 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. Call a doctor if you feel unwell.

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. After removal, flush contaminated area thoroughly with water.

Methods and Equipment for Containment and Cleaning up
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
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 hands 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
Have containers keep away from direct sunlight and heat. Keep away from 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 protective clothing and face protection as required.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES
Appearance
Physical State liquid
Form liquid (viscous liquid)
Colour blue

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

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 Sensitization
Skin Sensitization
Germ Cell Mutagenicity
Carcinogenicity
Reproductive Toxicity
Specific target organ toxicity (single exposure)
Specific target organ toxicity (repeated exposure)
Aspiration Hazard

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

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. Do not release waste liquid containing the product and used water for cleansing into rivers, etc., or do not discharge the concerned wastes intact for reclamation. When commissioning the disposal to a disposal company, notify the danger and toxicity thoroughly to the company.

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

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

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.