Safety Data Sheet (SDS)

Preparation Date  2014/10/29
Revision Date  2019/02/05

Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier  WDR15–A
Product Code  WDR15A0001
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
Emergency Phone Number  ink

Recommended Use and Restriction on Use  BGR2,BGR3,BGR4,BGR5,BGR7,BG202,BG203,BG204,BG205,BG207–A

Section 2 – HAZARDS IDENTIFICATION

GHS Classification

Health Hazards  Acute toxicity (Inhalation: dust and mist) Category 4
Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2A
Sensitization – skin Category 1
Reproductive toxicity Category 2
Specific target organ toxicity (single exposure) Category 2(blood,kidney,central nervous system)
Specific target organ toxicity (repeated exposure) Category 1(liver,kidney)
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
H332 Harmful if inhaled
H317 May cause an allergic skin reaction
H319 Causes serious eye irritation
H361 Suspected of damaging fertility or the unborn child
H371 May cause damage to blood,kidney,central nervous system

Precautionary Statements
Prevention  Avoid breathing mist, vapours and spray.(P261)
Precautionary Statements  Avoid breathing dust and fume.(P261)
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>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerin</td>
<td>11.49%</td>
<td>CH₂OHCH₂(ΟΗ)H₂OH</td>
<td>(2)–242</td>
<td>Existing</td>
<td>56–81–5</td>
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<tr>
<td>Ethylene glycol</td>
<td>5%</td>
<td>HOCH₂CH₂OH</td>
<td>(2)–230</td>
<td>Existing</td>
<td>107–21–1</td>
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<tr>
<td>Diethylene glycol</td>
<td>10%</td>
<td>HOCH₂CH₂OCH₂H₂OH</td>
<td>(2)–415</td>
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<td>111–46–6</td>
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<tr>
<td>Triethanolamine</td>
<td>1.37%</td>
<td>N(CH₂CH₂OH)₃</td>
<td>(2)–308</td>
<td>Existing</td>
<td>102–71–6</td>
</tr>
</tbody>
</table>

### Response

Get medical advice and attention if you feel unwell. (P314)

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

### Precautionary Statements

- Use only outdoors or in a well-ventilated area. (P271)
- Obtain special instructions before use. (P201)
- Do not handle until all safety precautions have been read and understood. (P202)
- 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)
- Contaminated work clothing should not be allowed out of the workplace. (P272)
- Wear protective gloves. (P280)
- 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)
- Call a doctor if you feel unwell. (P312)
- If skin irritation occurs: Get medical advice and attention. (P332+P313)
- 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: Get medical advice and attention. (P308+P313)
- Get medical advice and attention if you feel unwell. (P314)
- If skin irritation or rash occurs, get medical advice and attention. (P333+P313)
- If eye irritation persists: Get medical advice and attention. (P337+P313)
- Take off contaminated clothing and wash it before reuse. (P362+P364)
- Store locked up. (P405)
- Dispose of contents and container in accordance with local, regional and national regulations (to be specified). (P501)

### Storage

Dispose of contents and container in accordance with local, regional and national regulations (to be specified). (P501)
Ammonia Water 0.8%  (1)-314 Existing 1336-21-6

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
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
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>liquid</td>
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<tr>
<td>Physical State</td>
<td>liquid (viscous liquid)</td>
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<tr>
<td>Form</td>
<td>liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>black</td>
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<td>Odour</td>
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<td>Odour threshold</td>
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<td>pH</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>Flammability or Explosive Limits</td>
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<td>Partition Coefficient : n-Octanol/Water</td>
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<td>Auto-Ignition</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition</td>
<td>No data available</td>
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<tr>
<td>Temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
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<tr>
<td>Kinematic viscosity</td>
<td>No data available</td>
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</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
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
- Regulatory Information by 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 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

Other Property

No information available

This information is furnished without warranty express or implied. This information is believed to be accurate to the best knowledge of PENTEL Co., Ltd. but not assumes leagal responsibility for use of or reliance upon this information.
Safety Data Sheet (SDS)

Preparation Date 2014/10/29
Revision Date 2019/02/05

Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier WDR15-B
Product Code WDR15B0001
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

BGR2, BGR3, BGR4, BGR5, BGR7, BG202, BG203, BG204, BG205, BG207-B

Section 2 – HAZARDS IDENTIFICATION

GHS Classification

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

GHS Label Elements

Symbols

Signal Word Danger
H315 Causes skin irritation
H319 Causes serious eye irritation
H332 Harmful if inhaled
H361 Suspected of damaging fertility or the unborn child
H371 May cause damage to blood,kidney,central nervous system

Precautionary Statements
Prevention Avoid breathing mist, vapours and spray. (P261)
Precautionary Statements Avoid breathing dust and fume. (P261)
Wash eye thoroughly after handling. (P264)
Use only outdoors or in a well-ventilated area. (P271)
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<td>CH₂OHCH(OH)C/C H₂OH</td>
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<td>5%</td>
<td>HOCH₂CH₂OH</td>
<td>(2)–230</td>
<td>Existing</td>
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<tr>
<td>Diethylene glycol</td>
<td>10%</td>
<td>HOCH₂CH₂OH/C H₂OH</td>
<td>(2)–415</td>
<td>Existing</td>
</tr>
<tr>
<td>Triethanolamine</td>
<td>0.95%</td>
<td>N(CH₂CH₂H/OH)₃</td>
<td>(2)–308</td>
<td>Existing</td>
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Impurities and/or Stabilizing Additives which Contribute to the

Section 4 - FIRST AID MEASURES

Wear eye protection and face protection.(P280)
Obtain special instructions before use.(P201)
Do not handle until all safety precautions have been read and understood.(P202)
Do not breathe mist, vapours and spray.(P260)
Wash hand thoroughly after handling.(P264)
Do not eat, drink or smoke when using this product.(P270)
Wear protective gloves.(P280)

Response

Precautionary Statements

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

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)
Call a doctor if you feel unwell.(P312)
Specific treatment.(P321)
If skin irritation occurs: Get medical advice and attention.(P332+P313)
If eye irritation persists: Get medical advice and attention.(P337+P313)
Take off contaminated clothing and wash it before reuse.(P362+P364)
IF exposed or concerned: Get medical advice and attention.(P308+P313)
Get medical advice and attention if you feel unwell.(P314)

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Take off contaminated clothing and wash it before reuse.(P362+P364)
IF exposed or concerned: Get medical advice and attention.(P308+P313)
Get medical advice and attention if you feel unwell.(P314)

Storage

Precautionary Statements

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Take off contaminated clothing and wash it before reuse.(P362+P364)
IF exposed or concerned: Get medical advice and attention.(P308+P313)
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)

Disposal

Precautionary Statements

Dispose of contents and container in accordance with local, regional and national regulations (to be specified).(P501)
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. 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>Appearance</td>
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<tr>
<td>Form</td>
</tr>
<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>
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<tr>
<td>Melting Point/Freezing Point</td>
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<td>Initial Boiling Point and Boiling Ranges</td>
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<tr>
<td>Specific Gravity (Density)</td>
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<tr>
<td>Partition Coefficient : n-Octanol/Water</td>
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<tr>
<td>Auto-Ignition</td>
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<tr>
<td>Decomposition</td>
</tr>
<tr>
<td>Temperature</td>
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<tr>
<td>Viscosity</td>
</tr>
<tr>
<td>Kinematic viscosity</td>
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<table>
<thead>
<tr>
<th>Section 10 - STABILITY AND REACTIVITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reactivity</td>
</tr>
<tr>
<td>Chemical stability</td>
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<tr>
<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>
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<td>Hazardous Decomposition Products</td>
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<table>
<thead>
<tr>
<th>Section 11 - TOXICOLOGICAL INFORMATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Toxicity</td>
</tr>
<tr>
<td>Skin Corrosion/Irritation</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
</tr>
<tr>
<td>Respiratory Sensitization</td>
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<td>Skin Sensitization</td>
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<tr>
<td>Germ Cell Mutagenicity</td>
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<tr>
<td>Carcinogenicity</td>
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<tr>
<td>Reproductive Toxicity</td>
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<tr>
<td>Specific target organ toxicity (single exposure)</td>
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<td>Specific target organ toxicity (repeated exposure)</td>
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<tr>
<td>Aspiration Hazard</td>
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</table>
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.  
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  
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  
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 2014/10/29
Revision Date 2019/02/05

Section 1 - CHEMICALS AND COMPANY IDENTIFICATION
Chemical Identifier WDR15-C
Product Code WDR15C0001
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

BGR2,BGR3,BGR4,BGR5,BGR7,BG202,BG203,BG204,BG205,BG207–C

Section 2 - HAZARDS IDENTIFICATION

GHS Classification
Health Hazards
- Acute toxicity (Inhalation: dust and mist) Category 4
- Skin corrosion/irritation Category 2
- Serious eye damage/eye irritation Category 2A
- Reproductive toxicity Category 2
- Specific target organ toxicity (single exposure) Category 2(blood,kidney,central nervous system)
- Specific target organ toxicity (repeated exposure) Category 1(liver,kidney)
- 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
- H361 Suspected of damaging fertility or the unborn child
- H371 May cause damage to blood,kidney,central nervous system

Precautionary Statements
Prevention
Avoid breathing mist, vapours and spray.(P261)

Precautionary Statements
Avoid breathing dust and fume.(P261)
Wash eye thoroughly after handling.(P264)
Use only outdoors or in a well-ventilated area.(P271)
Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

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<th>Formula</th>
<th>ENCS No./ISHL No.</th>
<th>CAS RN</th>
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</thead>
<tbody>
<tr>
<td>Mixture</td>
<td>Glycerin</td>
<td>11.49%</td>
<td>CH2OHCH (OH)CH2OH</td>
<td>(2)–242</td>
<td>Existing</td>
</tr>
<tr>
<td></td>
<td>Ethylene glycol</td>
<td>5%</td>
<td>HOCH2CH2OH</td>
<td>(2)–230</td>
<td>Existing</td>
</tr>
<tr>
<td></td>
<td>Diethylene glycol</td>
<td>10%</td>
<td>HOCH2CH2OH</td>
<td>(2)–415</td>
<td>Existing</td>
</tr>
<tr>
<td></td>
<td>Triethanolamine</td>
<td>0.95%</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

Response
Precautionary Statements

Wear eye protection and face protection. (P280)
Obtain special instructions before use. (P201)
Do not handle until all safety precautions have been read and understood. (P202)
Do not breathe, mist, vapours and spray. (P260)
Wash hand thoroughly after handling. (P264)
Do not eat, drink or smoke when using this product. (P270)
Wear protective gloves. (P280)

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

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)
Call a doctor if you feel unwell. (P312)
Specific treatment. (P321)
If skin irritation occurs: Get medical advice and attention. (P332+P313)
If eye irritation persists: Get medical advice and attention. (P337+P313)
Take off contaminated clothing and wash it before reuse. (P362+P364)
IF exposed or concerned: Get medical advice and attention. (P308+P313)
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)
### 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
Provide ventilation system and use necessary personal protective equipment as described in "Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION".

### Technical Measures
Wash hand thoroughly after handling.

### Precautions for Safe 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
Refer to "Section 10 - STABILITY AND REACTIVITY".

### 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></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>blue</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>
<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>Lower Limit: No data available</td>
</tr>
<tr>
<td></td>
<td>Upper Limit: No data available</td>
</tr>
<tr>
<td>Vapour Pressure</td>
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</tr>
<tr>
<td>Vapour Density</td>
<td>No data available</td>
</tr>
<tr>
<td>Specific Gravity (Density)</td>
<td>No data available</td>
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<tr>
<td>Partition Coefficient : n-Octanol/Water</td>
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</tr>
<tr>
<td>Auto-Ignition</td>
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<tr>
<td>Decomposition</td>
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<tr>
<td>Temperature</td>
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<tr>
<td>Viscosity</td>
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<tr>
<td>Kinematic viscosity</td>
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#### Section 10 - STABILITY AND REACTIVITY

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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</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.
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.
Safety Data Sheet (SDS)

Preparation Date  2014/10/29
Revision Date  2019/02/05

Section 1 – CHEMICALS AND COMPANY IDENTIFICATION
Chemical Identifier  WDR15-D
Product Code  WDR15D0001
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

BGR2, BGR3, BGR4, BGR5, BGR7, BG202, BG203, BG204, BG205, BG207-D

Section 2 – HAZARDS IDENTIFICATION
GHS Classification

Health Hazards
- Acute toxicity (Inhalation: dust and mist) Category 4
- Skin corrosion/irritation Category 2
- Serious eye damage/eye irritation Category 1
- Sensitization – skin Category 1
- Reproductive toxicity Category 2
- Specific target organ toxicity (single exposure) Category 1 (blood, kidney, central nervous system)
- Specific target organ toxicity (repeated exposure) Category 2 (liver, kidney)

Environmental Hazards
- Hazardous to the aquatic environment (acute) Category 3
- 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
- H318 Causes serious eye damage
- H332 Harmful if inhaled
- H402 Harmful to aquatic life
- H317 May cause an allergic skin reaction
- H361 Suspected of damaging fertility or the unborn child
- H370 Causes damage to blood, kidney, central nervous system
- H373 May cause damage to liver, kidney through prolonged or repeated exposure

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>Glycerin</td>
<td>8.79%</td>
<td>CH2OHCH(OH)C(\text{OH})H2OH</td>
<td>(2)–242</td>
<td>Existing</td>
</tr>
<tr>
<td>Ethylene glycol</td>
<td>10.47%</td>
<td>HOCH2CH(2)OH</td>
<td>(2)–230</td>
<td>Existing</td>
</tr>
</tbody>
</table>
Diethylene glycol 7.3% HOCH2CH 2OCH2C H2OH (2)−415 Existing 111−46−6

Triethanolamine 1.9% N(CH2CH2 OH)3 (2)−308 Existing 102−71−6

Diethanolamine 0.12% (HOCH2C H2)2NH (2)−302,(2)−354 Existing 111−42−2

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. 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.

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

Avoid swallowing.

Avoid contact with eyes.

Protect from high temperature and direct sunlight.
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

Appearance
liquid

Physical State
liquid (viscous liquid)

Form

Colour
green

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
Not ignited

Evaporation Rate
No data available

Flammability (solid, gas)
No data available

Flammability or Explosive Limits
Nos data available

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-
No data available

Octanol/Water Auto-Ignition
No data available

Decomposition
No data available

Temperature

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

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

### Section 12 – ECOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazardous to the aquatic environment (acute)</td>
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<td>No data available</td>
</tr>
<tr>
<td>Hazardous to the aquatic environment (long-term)</td>
<td></td>
<td>No data available</td>
</tr>
<tr>
<td>Hazardous to the ozone layer</td>
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### Section 13 – DISPOSAL CONSIDERATIONS

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Residual Waste</td>
<td>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>
<td></td>
</tr>
<tr>
<td>Contaminated Container and Packaging</td>
<td>Recycle containers after cleansing, or carry out the disposal under the related laws and regulations and the standards of the local governments.</td>
<td></td>
</tr>
</tbody>
</table>

### Section 14 – TRANSPORT INFORMATION

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

<table>
<thead>
<tr>
<th>Information Contact</th>
<th>No information available</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>This information is furnished without warranty express or implied.</td>
</tr>
<tr>
<td>Other Property</td>
<td>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.</td>
</tr>
</tbody>
</table>
Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier: WDR15–F1
Product Code: WDR15F1001
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: dust and mist) Category 4
Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2A
Reproductive toxicity Category 2
Specific target organ toxicity (single exposure) Category 2(blood,kidney,central nervous system)
Specific target organ toxicity (repeated exposure) Category 1(liver,kidney)

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
H361 Suspected of damaging fertility or the unborn child
H371 May cause damage to blood,kidney,central nervous system

Precautionary Statements
Prevention:
Avoid breathing mist, vapours and spray.(P261)

Precautionary Statements:
Avoid breathing dust and fume.(P261)
Wash eye thoroughly after handling.(P264)
Use only outdoors or in a well-ventilated area.(P271)
Response
Precautionary Statements

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

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)

Call a doctor if you feel unwell.(P312)

Specific treatment.(P321)

If skin irritation occurs: Get medical advice and attention.(P332+P313)

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

Take off contaminated clothing and wash it before reuse.(P362+P364)

IF exposed or concerned: Get medical advice and attention.(P308+P313)

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. ENCS No.</th>
<th>ISHL No.</th>
<th>CAS RN</th>
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</thead>
<tbody>
<tr>
<td>Mixture</td>
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<td>11.49%</td>
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<td>(2)–242</td>
<td>Existing</td>
<td>56–81–5</td>
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<tr>
<td></td>
<td>Ethylene glycol</td>
<td>5%</td>
<td>HOCH2CH 2OH</td>
<td>(2)–230</td>
<td>Existing</td>
<td>107–21–1</td>
</tr>
<tr>
<td></td>
<td>Diethylene glycol</td>
<td>10%</td>
<td>HOCH2CH 2OCH2C H2OH</td>
<td>(2)–415</td>
<td>Existing</td>
<td>111–46–6</td>
</tr>
<tr>
<td></td>
<td>Triethanolamine</td>
<td>0.95%</td>
<td>N(CH2CH2 OH)3</td>
<td>(2)–308</td>
<td>Existing</td>
<td>102–71–6</td>
</tr>
</tbody>
</table>

Impurities and/or Stabilizing Additives which Contribute to the

No information available

Section 4 - FIRST AID MEASURES

Wear protective gloves.(P280)

Obtain special instructions before use.(P201)

Do not handle until all safety precautions have been read and understood.(P202)

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

Wash hand thoroughly after handling.(P264)

Do not eat, drink or smoke when using this product.(P270)

Wear protective gloves.(P280)
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. Refer to “Section 10 – STABILITY AND REACTIVITY”.

Prevents Handling of Incompatible Substances or Mixtures

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.

Storage Precautionary Statements

Refer to “Section 10 – STABILITY AND REACTIVITY”. Have containers keep away from direct sunlight and heat. Keep away from heat.
Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Physical State</th>
<th>Colour</th>
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</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>liquid</td>
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<td>Odour</td>
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<tr>
<td>pH</td>
<td>No data available</td>
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<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>
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<tr>
<td>Evaporation Rate</td>
<td>No data available</td>
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<tr>
<td>Flammability (solid, gas)</td>
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<td>Flammability or Explosive Limits</td>
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<tr>
<td>Vapour Pressure</td>
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<td>Vapour Density</td>
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<tr>
<td>Specific Gravity (Density)</td>
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<tr>
<td>Partition Coefficient : n-Octanol/Water</td>
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<td>Auto-Ignition</td>
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<tr>
<td>Decomposition</td>
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<tr>
<td>Temperature</td>
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<td>Viscosity</td>
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Section 10 – STABILITY AND REACTIVITY

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<td>Chemical stability</td>
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<tr>
<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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<tr>
<td>Hazardous Decomposition</td>
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Section 11 – TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Property</th>
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</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 Sensitization</td>
<td>No data available</td>
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<tr>
<td>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>
</tr>
<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>
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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
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
Safety Data Sheet (SDS)

Preparation Date  2014/10/29
Revision Date  2019/02/05

Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier  WDR15–F1
Product Code  WDR15F1001
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
BGR2, BGR3, BGR4, BGR5, BGR7, BG202, BG203, BG204, BG205, BG207–F1

Section 2 – HAZARDS IDENTIFICATION

GHS Classification

Health Hazards
Acute toxicity (Inhalation: dust and mist) Category 4
Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2A
Reproductive toxicity Category 2
Specific target organ toxicity (single exposure) Category 2(blood,kidney,central nervous system)
Specific target organ toxicity (repeated exposure) Category 1(liver,kidney)
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
H361 Suspected of damaging fertility or the unborn child
H371 May cause damage to blood,kidney,central nervous system

Precautionary Statements
Prevention
Avoid breathing mist, vapours and spray.(P261)

Precautionary Statements
Avoid breathing dust and fume.(P261)
Wash eye thoroughly after handling.(P264)
Use only outdoors or in a well–ventilated area.(P271)
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. ENCS No. ISHL No.</th>
<th>CAS RN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerin</td>
<td>11.49%</td>
<td>CH₂OHCH(OH)C H₂OH</td>
<td>(2)–242 Existing</td>
<td>56–81–5</td>
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<tr>
<td>Ethylene glycol</td>
<td>5%</td>
<td>HOCH₂CH₂OH</td>
<td>(2)–230 Existing</td>
<td>107–21–1</td>
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<tr>
<td>Diethylene glycol</td>
<td>10%</td>
<td>HOCH₂CH₂OCH₂H₂OH</td>
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<td>Triethanolamine</td>
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<td>N(CH₂CH₂OH)₃</td>
<td>(2)–308 Existing</td>
<td>102–71–6</td>
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</table>

Impurities and/or Stabilizing Additives which Contribute to the

Section 4 – FIRST AID MEASURES

Wear eye protection and face protection.(P280)
Obtain special instructions before use.(P201)
Do not handle until all safety precautions have been read and understood.(P202)
Do not breathe mist, vapours and spray.(P260)
Wash hand thoroughly after handling.(P264)
Do not eat, drink or smoke when using this product.(P270)
Wear protective gloves.(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)
Call a doctor if you feel unwell.(P312)
Specific treatment.(P321)
If skin irritation occurs: Get medical advice and attention.(P332+P313)
If eye irritation persists: Get medical advice and attention.(P337+P313)
Take off contaminated clothing and wash it before reuse.(P362+P364)
IF exposed or concerned: Get medical advice and attention.(P308+P313)
Get medical advice and attention if you feel unwell.(P314)

Dispose of contents and container in accordance with local, regional and national regulations (to be specified).(P501)
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
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>Physical and Chemical Properties</th>
<th>Value</th>
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<tbody>
<tr>
<td>Appearance</td>
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<tr>
<td>Physical State</td>
<td>liquid (viscous liquid)</td>
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<td>Form</td>
<td>orange</td>
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<td>Odour</td>
<td>slight odor</td>
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<tr>
<td>Odour threshold</td>
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<tr>
<td>pH</td>
<td>No data available</td>
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<tr>
<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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<tr>
<td>Flammability (solid, gas)</td>
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</tr>
<tr>
<td>Initial Boiling and Boiling Ranges</td>
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<td>Vapour Density</td>
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<td>Partition Coefficient : n-Octanol/Water</td>
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<tr>
<td>Auto-Ignition</td>
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<td>Temperature</td>
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<td>Kinematic viscosity</td>
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Section 10 - STABILITY AND REACTIVITY

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<th>Reactivity</th>
<th>Value</th>
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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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<tr>
<td>Hazardous Decomposition</td>
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Section 11 - TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Toxicological Information</th>
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<tr>
<td>Acute Toxicity</td>
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<tr>
<td>Skin Corrosion/Irritation</td>
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<td>Serious eye damage/eye irritation</td>
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<td>Respiratory Sensitization</td>
<td>No data available</td>
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<tr>
<td>Skin Sensitization</td>
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<tr>
<td>Germ Cell Mutagenicity</td>
<td>No data available</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>
<td>No data available</td>
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<tr>
<td>Aspiration Hazard</td>
<td>No data available</td>
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</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.
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

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
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Safety Data Sheet (SDS)

Preparation Date 2014/10/29
Revision Date 2019/02/05

Section 1 - CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier WDR15-P1
Product Code WDR15P1001
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
Number
Recommended Use and Restriction on Use ink
BGR2,BGR3,BGR4,BGR5,BGR7,BG202,BG203,BG204,BG205,BG207-P1

Section 2 - HAZARDS IDENTIFICATION

GHS Classification

Health Hazards
Acute toxicity (Inhalation: dust and mist) Category 4
Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2A
Reproductive toxicity Category 2
Specific target organ toxicity (single exposure) Category 2(blood,kidney,central nervous system)
Specific target organ toxicity (repeated exposure) Category 1(liver,kidney)
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
H361 Suspected of damaging fertility or the unborn child
H371 May cause damage to blood,kidney,central nervous system

Precautionary Statements
Prevention
Avoid breathing mist, vapours and spray.(P261)

Precautionary Statements
Avoid breathing dust and fume.(P261)
Wash eye thoroughly after handling.(P264)
Use only outdoors or in a well–ventilated area.(P271)
Response
Precautionary Statements
IF ON SKIN: Wash with plenty of soap and water.(P302+P352)

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)
Call a doctor if you feel unwell.(P312)
Specific treatment.(P321)
If skin irritation occurs: Get medical advice and attention.(P332+P313)
If eye irritation persists: Get medical advice and attention.(P337+P313)
Take off contaminated clothing and wash it before reuse.(P362+P364)
IF exposed or concerned: Get medical advice and attention.(P308+P313)
Get medical advice and attention if you feel unwell.(P314)

Storage
Precautionary Statements
Store locked up.(P405)

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

Section 3 – COMPOSITION / INFORMATION ON INGREDIENTS

<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>Glycerin</td>
<td>11.49%</td>
<td>CH2OHCH(OH)C H2OH</td>
<td>(2)–242</td>
<td>Existing</td>
</tr>
<tr>
<td>Ethylene glycol</td>
<td>5%</td>
<td>HOCH2CH2OH</td>
<td>(2)–230</td>
<td>Existing</td>
</tr>
<tr>
<td>Diethylene glycol</td>
<td>10%</td>
<td>HOCH2CH2OCH2C H2OH</td>
<td>(2)–415</td>
<td>Existing</td>
</tr>
<tr>
<td>Triethanolamine</td>
<td>0.95%</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
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.
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.

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”.

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>liquid</td>
</tr>
<tr>
<td>Physical State</td>
<td>liquid (viscous liquid)</td>
</tr>
<tr>
<td>Form</td>
<td>ピンク</td>
</tr>
<tr>
<td>Colour</td>
<td>slight odor</td>
</tr>
<tr>
<td>Odour</td>
<td>No data available</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
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<tr>
<td>pH</td>
<td>No data available</td>
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<tr>
<td>Melting Point/Freezing Point</td>
<td>No data available</td>
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<tr>
<td>Initial Boiling Point and Boiling Ranges</td>
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<tr>
<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>Flammability or Explosive Limits</td>
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<td>Lower Limit</td>
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<td>Upper Limit</td>
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<td>Vapour Density</td>
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<td>Specific Gravity (Density)</td>
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<tr>
<td>Partition Coefficient : n-Octanol/Water</td>
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<td>Auto-Ignition</td>
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<td>Decomposition</td>
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<td>Temperature</td>
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<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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<tbody>
<tr>
<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>
<td>No data available</td>
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<tr>
<td>Hazardous Decomposition</td>
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<td>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>
<td>No information available</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>
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<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>
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</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 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. |
Safety Data Sheet (SDS)

Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier: WDR15-S1
Product Code: WDR15S1001
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

BGR2, BGR3, BGR4, BGR5, BGR7, BG202, BG203, BG204, BG205, BG207-S1

Section 2 – HAZARDS IDENTIFICATION

GHS Classification

Health Hazards: Acute toxicity (Inhalation: dust and mist) Category 4
Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2A
Sensitization – skin Category 1
Reproductive toxicity Category 2
Specific target organ toxicity (single exposure) Category 1 (blood, kidney, central nervous system)
Specific target organ toxicity (repeated exposure) Category 2 (liver, kidney)

Environmental Hazards: Hazardous to the aquatic environment (acute) Category 3
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
H402 Harmful to aquatic life
H317 May cause an allergic skin reaction
H361 Suspected of damaging fertility or the unborn child
H370 Causes damage to blood, kidney, central nervous system
H373 May cause damage to liver, kidney through prolonged or repeated exposure

Precautionary Statements
### Prevention Precautionary Statements

- Avoid breathing mist, vapours and spray. (P261)
- Avoid breathing dust and fume. (P261)
- Use only outdoors or in a well-ventilated area. (P271)
- Do not handle until all safety precautions have been read and understood. (P202)
- 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)
- Contaminated work clothing should not be allowed out of the workplace. (P272)
- Avoid release to the environment. (P273)
- Wear protective gloves. (P280)
- Wear eye protection and face protection. (P280)
- IF ON SKIN: Wash with plenty of soap and water. (P302+P352)

### Response Precautionary Statements

- IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. (P304+P340)
- Call a doctor if you feel unwell. (P312)
- If skin irritation occurs: Get medical advice and attention. (P332+P313)
- 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: Get medical advice and attention. (P308+P313)
- Get medical advice and attention if you feel unwell. (P314)
- If skin irritation or rash occurs, get medical advice and attention. (P333+P313)
- If eye irritation persists: Get medical advice and attention. (P337+P313)
- Take off contaminated clothing and wash it before reuse. (P362+P364)
- 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 Precautionary Statements

- Contaminated work clothing should not be allowed out of the workplace. (P272)
- Avoid release to the environment. (P273)
- Wear protective gloves. (P280)
- Wear eye protection and face protection. (P280)

---

### 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. ISHL No.</th>
<th>CAS RN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerin</td>
<td>8.79%</td>
<td>CH₂OHCH(OH)C H₂OH</td>
<td>(2)–242 Existing</td>
<td>56–81–5</td>
</tr>
<tr>
<td>Ethylene glycol</td>
<td>10.47%</td>
<td>HOCH₂CH₂OH</td>
<td>(2)–230 Existing</td>
<td>107–21–1</td>
</tr>
</tbody>
</table>
Diethylene glycol 7.3% HOCH2CH2OCH2CH2OH (2)-415 Existing 111-46-6

Triethanolamine 2.6% N(CH2CH2OH)3 (2)-308 Existing 102-71-6

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. Refer to “Section 10 – STABILITY AND REACTIVITY”.

Prevent Handling of Incompatible Substances or Mixtures

No information available
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

Appearance

Physical State: liquid

Form: liquid (viscous liquid)

Colour: スカイブルー

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: 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
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
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
Regulatory Information by Air

Emergency Response Guide Number
Not applicable

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

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.

No data available
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.
Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

- **Chemical Identifier**: WDR15–S2
- **Product Code**: WDR15S2001
- **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: dust and mist) Category 4
- Skin corrosion/irritation Category 2
- Serious eye damage/eye irritation Category 1
- Sensitization – skin Category 1
- Reproductive toxicity Category 2
- Specific target organ toxicity (single exposure) Category 1(blood,kidney,central nervous system)
- Specific target organ toxicity (repeated exposure) Category 2(liver,kidney)

- **Environmental Hazards**: Hazardous to the aquatic environment (acute) Category 3
- 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
- H318 Causes serious eye damage
- H332 Harmful if inhaled
- H402 Harmful to aquatic life
- H317 May cause an allergic skin reaction
- H361 Suspected of damaging fertility or the unborn child
- H370 Causes damage to blood,kidney,central nervous system
- H373 May cause damage to liver,kidney through prolonged or repeated exposure

Precautionary Statements
**Precautionary Statements**

- **Prevention**
  - Avoid breathing mist, vapours and spray. (P261)
  - Avoid breathing dust and fume. (P261)
  - Use only outdoors or in a well-ventilated area. (P271)
  - Avoid release to the environment. (P273)
  - Wear eye protection and face protection. (P280)
  - Obtain special instructions before use. (P208)
  - Do not handle until all safety precautions have been read and understood. (P202)
  - Do not breathe mist, vapours and spray. (P260)
  - Wash hand thoroughly after handling. (P264)
  - Do not eat, drink or smoke when using this product. (P270)
  - Contaminated work clothing should not be allowed out of the workplace. (P272)
  - Wear protective gloves. (P280)

- **Response**
  - IF ON SKIN: Wash with plenty of soap and water. (P302+P352)
  - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. (P304+P340)
  - Immediately call a doctor. (P310)
  - Call a doctor if you feel unwell. (P312)
  - If skin irritation occurs: Get medical advice and attention. (P332+P313)
  - 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: Get medical advice and attention. (P308+P313)
  - Get medical advice and attention if you feel unwell. (P314)
  - If skin irritation or rash occurs, get medical advice and attention. (P333+P313)
  - Take off contaminated clothing and wash it before reuse. (P362+P364)
  - Store locked up. (P405)

- **Storage**
  - Avoid breathing mist, vapours and spray. (P261)
  - Avoid dust and fume. (P261)
  - Use only outdoors or in a well-ventilated area. (P271)
  - Avoid release to the environment. (P273)
  - Wear eye protection and face protection. (P280)
  - Obtain special instructions before use. (P208)
  - Do not handle until all safety precautions have been read and understood. (P202)
  - Do not breathe mist, vapours and spray. (P260)
  - Wash hand thoroughly after handling. (P264)
  - Do not eat, drink or smoke when using this product. (P270)
  - Contaminated work clothing should not be allowed out of the workplace. (P272)
  - Wear protective gloves. (P280)

- **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

<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><strong>Glycerin</strong></td>
<td>8.79%</td>
<td>( \text{CH}_2\text{OHCH} \text{(OH)}\text{C} \text{H}_2\text{OH} ) (2)–242</td>
<td>Existing</td>
<td>56–81–5</td>
</tr>
<tr>
<td><strong>Ethylene glycol</strong></td>
<td>10.47%</td>
<td>( \text{HOCH}_2\text{CH}_2\text{OH} ) (2)–230</td>
<td>Existing</td>
<td>107–21–1</td>
</tr>
</tbody>
</table>
Diethylene glycol 7.3% HOCH2CH2OCH2CH2OH (2)-415 Existing 111-46-6
Triethanolamine 1.9% N(CH2CH2OH)3 (2)-308 Existing 102-71-6
Diethanolamine 0.12% (HOCH2CH2)2NH (2)-302,(2)-354 Existing 111-42-2
Direct Blue 87 0.59% (5)-1299 Existing 1330-39-8

Impurities and/or Stabilizing Additives which Contribute to the

Section 4 – FIRST AID MEASURES
Inhalation
Skin Contact
Eye Contact
Ingestion

Section 5 – FIRE FIGHTING MEASURES
Extinguishing Media

Section 6 – ACCIDENTAL RELEASE MEASURES
Environmental Precautions
Methods and Equipment for Containment and Cleaning up
Prevention Measures for Secondary Accidents

Section 7 – HANDLING AND STORAGE
Handling Technical Measures
Precautions for Safe Handling

Get medical advice and attention if you feel unwell.
Wash with soap and water.
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.
Dry chemicals, CO2, water spray or regular foam.
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.
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.
Provide ventilation system and use necessary personal protective equipment as described in “Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION”.
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

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

Appearance

Physical State liquid

Form liquid (viscous liquid)

Colour sky blue

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 No data available

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

<table>
<thead>
<tr>
<th>Acute Toxicity</th>
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<tbody>
<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>
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<tr>
<td>Respiratory Sensitization</td>
<td>No data available</td>
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<tr>
<td>Skin Sensitization</td>
<td>No data available</td>
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<td>Germ Cell Mutagenicity</td>
<td>No data available</td>
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<tr>
<td>Carcinogenicity</td>
<td>No data available</td>
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<td>Reproductive Toxicity</td>
<td>No data available</td>
</tr>
<tr>
<td>Specific target organ</td>
<td>No data available</td>
</tr>
<tr>
<td>toxicity (single exposure)</td>
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<tr>
<td>Specific target organ</td>
<td>No data available</td>
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<tr>
<td>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. |
| 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 Marine Pollutant Transport in bulk according to MARPOL 73/78,Annex II,and the IBC code</th>
<th>Not applicable</th>
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</thead>
<tbody>
<tr>
<td>Regulations in Japan</td>
<td>Regulatory Information by Air</td>
<td>Not applicable</td>
</tr>
<tr>
<td></td>
<td>Regulatory Information by Road or Rail</td>
<td>Not applicable</td>
</tr>
<tr>
<td></td>
<td>Regulatory Information by Sea Marine Pollutant Transport in bulk according to MARPOL 73/78,Annex II,and the IBC code</td>
<td>Not applicable</td>
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</table>
### Regulatory Information by Air

<table>
<thead>
<tr>
<th>Emergency Response Guide Number</th>
<th>Not applicable</th>
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</table>

### 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

<table>
<thead>
<tr>
<th>Information Contact</th>
<th>No information available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other Property</td>
<td>This information is furnished without warranty express or implied. This information is believed to be accurate to the best knowledge of PENTEL Co., Ltd. but not assumes leagal responsibility for use of or reliance upon this information.</td>
</tr>
</tbody>
</table>
Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier: WDR15-V
Product Code: WDR15V0001
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

BGR2, BGR3, BGR4, BGR5, BGR7, BG202, BG203, BG204, BG205, BG207-V

Section 2 – HAZARDS IDENTIFICATION

GHS Classification

Health Hazards
- Acute toxicity (Inhalation: dust and mist) Category 4
- Skin corrosion/irritation Category 2
- Serious eye damage/eye irritation Category 1
- Sensitization – skin Category 1
- Reproductive toxicity Category 2
- Specific target organ toxicity (single exposure) Category 1 (blood, kidney, central nervous system)
- Specific target organ toxicity (repeated exposure) Category 2 (liver, kidney)

Environmental Hazards
- Hazardous to the aquatic environment (acute) Category 3
- 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
- H318 Causes serious eye damage
- H332 Harmful if inhaled
- H402 Harmful to aquatic life
- H317 May cause an allergic skin reaction
- H361 Suspected of damaging fertility or the unborn child
- H370 Causes damage to blood, kidney, central nervous system
- H373 May cause damage to liver, kidney through prolonged or repeated exposure

Precautionary Statements
Prevention
Precautionary Statements
Avoid breathing mist, vapours and spray.(P261)
Avoid breathing dust and fume.(P261)
Use only outdoors or in a well-ventilated area.(P271)
Avoid release to the environment.(P273)
Wear eye protection and face protection.(P280)
Obtain special instructions before use.(P201)
Do not handle until all safety precautions have been read and understood.(P202)
Do not breathe mist, vapours and spray.(P260)
Wash hand thoroughly after handling.(P264)
Do not eat, drink or smoke when using this product.(P270)
Contaminated work clothing should not be allowed out of the workplace.(P272)
Wear protective gloves.(P280)

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

Storage
Precautionary Statements
Avoid release to the environment.(P273)
Wear eye protection and face protection.(P280)
Obtain special instructions before use.(P201)
Do not handle until all safety precautions have been read and understood.(P202)
Do not breathe mist, vapours and spray.(P260)
Wash hand thoroughly after handling.(P264)
Contaminated work clothing should not be allowed out of the workplace.(P272)
Wear protective gloves.(P280)

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>CAS RN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mixture</td>
<td>Glycerin</td>
<td>8.79%</td>
<td>CH2OHCH2OH</td>
<td>(2)–242</td>
<td>Existing</td>
</tr>
<tr>
<td></td>
<td>Ethylene glycol</td>
<td>10.47%</td>
<td>HOCH2CH2OH</td>
<td>(2)–230</td>
<td>Existing</td>
</tr>
<tr>
<td>Chemical</td>
<td>Concentration</td>
<td>CAS Number</td>
<td>Status</td>
<td>CAS Number</td>
<td></td>
</tr>
<tr>
<td>---------------------</td>
<td>---------------</td>
<td>------------</td>
<td>--------</td>
<td>------------</td>
<td></td>
</tr>
<tr>
<td>Diethylene glycol</td>
<td>7.3%</td>
<td>HOCH2CH(2)OCH2C(2)-415</td>
<td>Existing</td>
<td>111-46-6</td>
<td></td>
</tr>
<tr>
<td>Triethanolamine</td>
<td>1.9%</td>
<td>N(CH2CH2OH)3(2)-308</td>
<td>Existing</td>
<td>102-71-6</td>
<td></td>
</tr>
<tr>
<td>Diethanolamine</td>
<td>0.12%</td>
<td>(HOCH2C(2)H2)2NH(2)-302,(2)-354</td>
<td>Existing</td>
<td>111-42-2</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

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. Do not allow water to enter drains, sewers, or to run off into watercourses.

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 swallowing.
Avoid contact with eyes.
Protect from high temperature and direct sunlight.
Prevents Handling of Incompatible Substances or Mixtures

Storage Precautionary Statements

<table>
<thead>
<tr>
<th>Conditions for Safe Storage</th>
<th>Prevents Handling of Incompatible Substances or Mixtures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Have containers keep away from direct sunlight and heat.</td>
<td>Refer to “Section 10 – STABILITY AND REACTIVITY”.</td>
</tr>
<tr>
<td>Keep away from heat.</td>
<td>Refer to “Section 10 – STABILITY AND REACTIVITY”.</td>
</tr>
</tbody>
</table>

Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>Engineering Controls</th>
<th>Personal Protective Equipment</th>
<th>Respiratory Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Good general ventilation should be sufficient to control airborne levels.</td>
<td>Use personal gloves as required.</td>
<td>Use personal respiratory equipment as required.</td>
</tr>
<tr>
<td>Use personal eye protection as required.</td>
<td>Use personal protective clothing and face protection as required.</td>
<td></td>
</tr>
<tr>
<td>Use personal protective clothing and face protection as required.</td>
<td></td>
<td></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>Form</td>
<td>liquid (viscous liquid)</td>
<td></td>
</tr>
<tr>
<td>Colour</td>
<td>purple</td>
<td></td>
</tr>
</tbody>
</table>

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

Section 10 – STABILITY AND REACTIVITY

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

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.

Regulatory Information by Air
Not applicable
Not applicable

This information is furnished without warranty express or implied.

No information available