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 Number: 03–5695–7210
Recommended Use: 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)
**Response**

**Precautionary Statements**

**Storage**

**Precautionary Statements**

**Disposal**

**Precautionary Statements**

---

**Section 3 – COMPOSITION / INFORMATION ON INGREDIENTS**

**Distinction of Substance or Mixture**

<table>
<thead>
<tr>
<th>Chemical Name or Generic Name</th>
<th>Concentration or Its Ranges</th>
<th>Formula</th>
<th>ENCS No./ISHL No.</th>
<th>CAS RN</th>
</tr>
</thead>
<tbody>
<tr>
<td>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>HOCH₂CH₂OCH₂CH₂H₂OH</td>
<td>(2)−415</td>
<td>Existing</td>
</tr>
<tr>
<td>Triethanolamine</td>
<td>1.37%</td>
<td>N(CH₂CH₂OH)₃</td>
<td>(2)−308</td>
<td>Existing</td>
</tr>
</tbody>
</table>
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.

Prevention Measures for Secondary Accidents
Prevent flowing into drain, sewage, basement, and closed area.
Remove thoroughly since the smooth and slippery surface will be formed on the floor.

Section 7 - HANDLING AND STORAGE
Handling Technical Measures
Provide ventilation system and use necessary personal protective equipment as described in "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION”.

Precautions for Safe Handling
Wash hand thoroughly after handling.

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

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

Storage Precautionary Statements Conditions for Safe Storage
Refer to “Section 10 – STABILITY AND REACTIVITY”.
Have containers keep away from direct sunlight and heat.
Keep away from heat.
Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls
Good general ventilation should be sufficient to control airborne levels.

Personal Protective Equipment

Respiratory Protection
Use personal respiratory equipment as required.

Hand Protection
Use personal gloves as required.

Eye Protection
Use personal eye protection as required.

Skin and Body Protection
Use personal protective clothing and face protection as required.

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State: liquid

Form: liquid (viscous liquid)

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

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.
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

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
<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>
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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
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)

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

Storage Precautionary Statements
Store locked up.(P405)

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Distinction of Substance or Mixture

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<td><strong>Glycerin</strong></td>
<td>11.49%</td>
<td>CH2OHCH(OH)C H2OH</td>
<td>(2)–242 Existing</td>
<td>56–81–5</td>
</tr>
<tr>
<td><strong>Ethylene glycol</strong></td>
<td>5%</td>
<td>HOCH2CH2OH</td>
<td>(2)–230 Existing</td>
<td>107–21–1</td>
</tr>
<tr>
<td><strong>Diethylene glycol</strong></td>
<td>10%</td>
<td>HOCH2CH2OC H2OH</td>
<td>(2)–415 Existing</td>
<td>111–46–6</td>
</tr>
<tr>
<td><strong>Triethanolamine</strong></td>
<td>0.95%</td>
<td>N(CH2CH2OH)3</td>
<td>(2)–308 Existing</td>
<td>102–71–6</td>
</tr>
</tbody>
</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)

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)
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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)
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>
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<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>
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<tr>
<td>Colour</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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<tr>
<td>Initial Boiling Point and Boiling Ranges</td>
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<tr>
<td>Flash Point</td>
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<tr>
<td>Evaporation Rate</td>
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<td>Flammability (solid, gas)</td>
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<tr>
<td>Flammability or Explosive Limits</td>
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<td>Lower Limit</td>
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<td>Auto-Ignition</td>
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<tr>
<td>Decomposition</td>
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<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

<table>
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<th>Value</th>
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<td>Reactivity</td>
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<td>Chemical stability</td>
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<td>Possibility of Hazardous Reaction</td>
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<td>Conditions to Avoid</td>
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<td>Incompatible Substances or Mixtures</td>
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<td>Hazardous Decomposition Products</td>
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Section 11 – TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>Acute Toxicity</td>
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<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>
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</tr>
<tr>
<td>Germ Cell Mutagenicity</td>
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<td>Reproductive Toxicity</td>
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<tr>
<td>Specific target organ toxicity (single exposure)</td>
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<tr>
<td>Specific target organ toxicity (repeated exposure)</td>
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</tr>
<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
Other Property  This information is furnished without warranty express or implied.
This information is believed to be accurate to the best knowledge of PENTEL Co., Ltd. but not assumes legal responsibility for use of or reliance upon this information.
Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier: 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)
Response

Precautionary Statements

Storage

Precautionary Statements

Disposal

Precautionary Statements

Section 3  -  COMPOSITION / INFORMATION ON INGREDIENTS

Distinction of Substance or Mixture

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<td>Glycerin</td>
<td>11.49%</td>
<td>CH2OHCH(OH)C H2OH</td>
<td>(2)–242 Existing</td>
<td>56–81–5</td>
</tr>
<tr>
<td>Ethylene glycol</td>
<td>5%</td>
<td>HOCH2CH2OH</td>
<td>(2)–230 Existing</td>
<td>107–21–1</td>
</tr>
<tr>
<td>Diethylene glycol</td>
<td>10%</td>
<td>HOCH2CH2OCH2C H2OH</td>
<td>(2)–415 Existing</td>
<td>111–46–6</td>
</tr>
<tr>
<td>Triethanolamine</td>
<td>0.95%</td>
<td>N(CH2CH2OH)3</td>
<td>(2)–308 Existing</td>
<td>102–71–6</td>
</tr>
</tbody>
</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)

Store locked up. (P405)

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.
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.

Methods and Equipment for Containment and Cleaning up

Prevention Measures for Secondary Accidents

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”.
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”.

Precautions for Safe Handling

Have containers keep away from direct sunlight and heat.
Keep away from heat.

Storage Precautionary Statements Conditions for Safe Storage

Refer to “Section 10 – STABILITY AND REACTIVITY”.

Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

Good general ventilation should be sufficient to control airborne levels.

Personal Protective Equipment

Respiratory Protection

Use personal respiratory equipment as required.

Hand Protection

Use personal gloves as required.
Eye Protection
Use personal eye protection as required.

Skin and Body Protection
Use personal protective clothing and face protection as required.

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

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

Section 10 – STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reactivity</td>
<td>No data available</td>
</tr>
<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</td>
<td>No data available</td>
</tr>
<tr>
<td>Products</td>
<td>No data available</td>
</tr>
</tbody>
</table>

Section 11 – TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Toxicity</td>
<td>No information available</td>
</tr>
<tr>
<td>Skin Corrosion/Irritation</td>
<td>No data available</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>No data available</td>
</tr>
<tr>
<td>Respiratory Sensitization</td>
<td>No data available</td>
</tr>
<tr>
<td>Skin Sensitization</td>
<td>No data available</td>
</tr>
<tr>
<td>Germ Cell Mutagenicity</td>
<td>No data available</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>No data available</td>
</tr>
<tr>
<td>Reproductive Toxicity</td>
<td>No data available</td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>No data available</td>
</tr>
<tr>
<td>Specific target organ toxicity (repeated exposure)</td>
<td>No data available</td>
</tr>
<tr>
<td>Aspiration Hazard</td>
<td>No data available</td>
</tr>
</tbody>
</table>
Section 12 – ECOLOGICAL INFORMATION

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

Section 13 – DISPOSAL CONSIDERATIONS

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

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

Preparation Date  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
<table>
<thead>
<tr>
<th>Prevention Precautionary Statements</th>
<th>Avoid breathing mist, vapours and spray. (P261)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Avoid breathing dust and fume. (P261)</td>
</tr>
<tr>
<td></td>
<td>Use only outdoors or in a well-ventilated area. (P271)</td>
</tr>
<tr>
<td></td>
<td>Avoid release to the environment. (P273)</td>
</tr>
<tr>
<td></td>
<td>Wear eye protection and face protection. (P280)</td>
</tr>
<tr>
<td></td>
<td>Obtain special instructions before use. (P208)</td>
</tr>
<tr>
<td></td>
<td>Do not handle until all safety precautions have been read and understood. (P202)</td>
</tr>
<tr>
<td></td>
<td>Do not breathe mist, vapours and spray. (P260)</td>
</tr>
<tr>
<td></td>
<td>Wash hand thoroughly after handling. (P264)</td>
</tr>
<tr>
<td></td>
<td>Do not eat, drink or smoke when using this product. (P270)</td>
</tr>
<tr>
<td></td>
<td>Contaminated work clothing should not be allowed out of the workplace. (P272)</td>
</tr>
<tr>
<td></td>
<td>Wear protective gloves. (P280)</td>
</tr>
<tr>
<td>Response Precautionary Statements</td>
<td>IF ON SKIN: Wash with plenty of soap and water. (P302+P352)</td>
</tr>
<tr>
<td></td>
<td>IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. (P304+P340)</td>
</tr>
<tr>
<td></td>
<td>Immediately call a doctor. (P310)</td>
</tr>
<tr>
<td></td>
<td>Call a doctor if you feel unwell. (P312)</td>
</tr>
<tr>
<td></td>
<td>If skin irritation occurs: Get medical advice and attention. (P332+P313)</td>
</tr>
<tr>
<td></td>
<td>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)</td>
</tr>
<tr>
<td></td>
<td>IF exposed or concerned: Get medical advice and attention. (P308+P313)</td>
</tr>
<tr>
<td></td>
<td>Get medical advice and attention if you feel unwell. (P314)</td>
</tr>
<tr>
<td></td>
<td>If skin irritation or rash occurs, get medical advice and attention. (P333+P313)</td>
</tr>
<tr>
<td></td>
<td>Take off contaminated clothing and wash it before reuse. (P362+P364)</td>
</tr>
<tr>
<td>Storage Precautionary Statements</td>
<td>Store locked up. (P405)</td>
</tr>
<tr>
<td>Disposal Precautionary Statements</td>
<td>Dispose of contents and container in accordance with local, regional and national regulations (to be specified). (P501)</td>
</tr>
</tbody>
</table>

### Section 3 – COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Distinction of Substance or Mixture</th>
<th><strong>Chemical Name or Generic Name</strong></th>
<th><strong>Concentration or Its Ranges</strong></th>
<th><strong>Formula</strong></th>
<th><strong>ENCS No. / ISHL No.</strong></th>
<th><strong>CAS RN</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Glycerin</strong></td>
<td>8.79%</td>
<td>CH₂OHCH₂(OH)C H₂O₃H</td>
<td>(2)–242</td>
<td>Existing</td>
</tr>
<tr>
<td></td>
<td><strong>Ethylene glycol</strong></td>
<td>10.47%</td>
<td>HOCH₂CH₂OH</td>
<td>(2)–230</td>
<td>Existing</td>
</tr>
</tbody>
</table>
### 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.
- 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.

**Methods and Equipment for Containment and Cleaning up**
- Prevent flowing into drain, sewage, basement, and closed area.
- Remove thoroughly since the smooth and slippery surface will be formed on the floor.

### Section 7 - HANDLING AND STORAGE

**Handling 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
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
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
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>
<th>No information available</th>
</tr>
</thead>
<tbody>
<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</td>
<td>No data available</td>
</tr>
<tr>
<td>Specific target organ toxicity</td>
<td>No data available</td>
</tr>
<tr>
<td>Specific target organ toxicity</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

<table>
<thead>
<tr>
<th>Residual Waste</th>
<th>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.</th>
</tr>
</thead>
<tbody>
<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>
</tr>
</tbody>
</table>

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>
</tr>
</thead>
<tbody>
<tr>
<td>Regulatory Information by Air</td>
<td>No applicable</td>
<td>No applicable</td>
</tr>
<tr>
<td>Regulations in Japan</td>
<td>No applicable</td>
<td>No applicable</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
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-F1
Product Code: WDR15F1001
Company Name: PENTEL CO., LTD.
Address: 7-2, Koamiccho, 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, BG2, 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)
Section 3 – COMPOSITION / INFORMATION ON INGREDIENTS

### Distinction of Substance or Mixture

<table>
<thead>
<tr>
<th>Chemical Name or Generic Name</th>
<th>Concentration or Its Ranges</th>
<th>Formula</th>
<th>ENCS No./ISHL No.</th>
<th>CAS RN</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Glycerin</strong></td>
<td>11.49%</td>
<td>CH2OHCH(OH)C H2OH</td>
<td>(2)–242</td>
<td>Existing</td>
</tr>
<tr>
<td><strong>Ethylene glycol</strong></td>
<td>5%</td>
<td>HOCH2CH2OH</td>
<td>(2)–230</td>
<td>Existing</td>
</tr>
<tr>
<td><strong>Diethylene glycol</strong></td>
<td>10%</td>
<td>HOCH2CH2OH (2)–415</td>
<td>Existing</td>
<td>111–46–6</td>
</tr>
<tr>
<td><strong>Triethanolamine</strong></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

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

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

Disposal
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)

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)

Wash hand thoroughly after handling.(P264)

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

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

Methods and Equipment for Containment and Cleaning up

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

Prevention Measures for Secondary Accidents

Prevent flowing into drain, sewage, basement, and closed area.
Remove thoroughly since the smooth and slippery surface will be formed on the floor.

Section 7 - HANDLING AND STORAGE

Handling Technical Measures

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

Precautions for Safe Handling

Wash hand thoroughly after handling.
Avoid swallowing.
Avoid contact with eyes.
Protect from high temperature and direct sunlight.

Prevents Handling of Incompatible Substances or Mixtures

Refer to "Section 10 – STABILITY AND REACTIVITY".

Storage Precautionary Statements Conditions for Safe Storage

Refer to "Section 10 – STABILITY AND REACTIVITY".

Have containers keep away from direct sunlight and heat.
Keep away from heat.

Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

Good general ventilation should be sufficient to control airborne levels.

Personal Protective Equipment

Respiratory Protection

Use personal respiratory equipment as required.

Hand Protection

Use personal gloves as required.
Eye Protection | Use personal eye protection as required.
Skin and Body Protection | Use personal protective clothing and face protection as required.

### Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquid, viscous liquid</td>
</tr>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Form</td>
<td>Orange</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>
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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>
<td>No data available</td>
</tr>
<tr>
<td>Flammability or Explosive Limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Lower Limit</td>
<td>No data available</td>
</tr>
<tr>
<td>Upper Limit</td>
<td>No data available</td>
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<td>Vapour Pressure</td>
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<td>Vapour Density</td>
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<td>Specific Gravity (Density)</td>
<td>No data available</td>
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<td>Partition Coefficient : n-Octanol/Water</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-Ignition</td>
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</tr>
<tr>
<td>Decomposition</td>
<td>No data available</td>
</tr>
<tr>
<td>Temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
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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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<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>
</tr>
<tr>
<td>Hazardous Decomposition</td>
<td>No data available</td>
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### Section 11 - TOXICOLOGICAL INFORMATION

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

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

Section 16 - OTHER INFORMATION
Information Contact No information available
Other Property This information is furnished without warranty express or implied.
This information is believed to be accurate to the best knowledge of PENTEL Co., Ltd. but not assumes legal responsibility for use of or reliance upon this information.

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 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)
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>CH₂O-HCH₂OH</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>HOCH₂CH₂OCH₂OH</td>
<td>(2)–415</td>
<td>Existing</td>
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<tr>
<td>Triethanolamine</td>
<td>0.95%</td>
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<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
IF ON SKIN: Wash with plenty of soap and water.(P302+P352)

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)

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)

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)

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)

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)

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

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)

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

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

### Section 10 - STABILITY AND REACTIVITY

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

### Section 11 - TOXICOLOGICAL INFORMATION

| **Acute Toxicity** | No information available |
| **Skin Corrosion/Irritation** | No data available |
| **Serious eye damage/eye irritation** | No data available |
| **Respiratory Sensitization** | No data available |
| **Skin Sensitization** | No data available |
| **Germ Cell Mutagenicity** | No data available |
| **Carcinogenicity** | No data available |
| **Reproductive Toxicity** | No data available |
| **Specific target organ toxicity (single exposure)** | No data available |
| **Specific target organ toxicity (repeated exposure)** | No data available |
| **Aspiration Hazard** | No data available |
Section 12 – ECOLOGICAL INFORMATION
Hazardous to the aquatic environment (acute)  No data available
Hazardous to the aquatic environment (long-term)  No data available
Hazardous to the ozone layer  No data available

Section 13 – DISPOSAL CONSIDERATIONS
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
Other Property  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–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 ink
and Restriction on Use BGR2,BGR3,BGR4,BGR5,BG202,BG203,BG204,BG 205–S2

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

#### Distinction of Substance or Mixture

<table>
<thead>
<tr>
<th>Chemical Name or Generic Name</th>
<th>Concentration or Its Ranges</th>
<th>Formula</th>
<th>ENCS No./ISHL No.</th>
<th>CAS RN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerin</td>
<td>8.79%</td>
<td>$\text{CH}_2\text{OHCH(OH)C}_2\text{OH}$</td>
<td>(2)–242</td>
<td>Existing</td>
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<tr>
<td>Ethylene glycol</td>
<td>10.47%</td>
<td>$\text{HOCH}_2\text{CH}_2\text{OH}$</td>
<td>(2)–230</td>
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</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%  (HOCH2CH
OH)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
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
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
Vacuum or sweep up material and place in a
for Containment and
disposal container.
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
Provide ventilation system and use necessary
Technical Measures
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

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 Temperature No data available

Decomposition No data available

Temperature No data available

Viscosity No data available

Kinematic viscosity No data available

Section 10 – STABILITY AND REACTIVITY

Reactivity No data available

Chemical stability No data available

Possibility of Hazardous Reaction No data available

Conditions to Avoid No data available

Incompatible Substances or Mixtures No data available

Hazardous Decomposition Products No data available
Section 11 - TOXICOLOGICAL INFORMATION

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

Section 12 - ECOLOGICAL INFORMATION

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

Section 13 - DISPOSAL CONSIDERATIONS

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

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

Section 14 - TRANSPORT INFORMATION

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

Regulations in Japan Regulatory Information by Air Not applicable
Regulatory Information by Road or Rail Not applicable
Marine Pollutant Transport in bulk according to MARPOL 73/78,Annex II,and the IBC code Not applicable
Section 15 – REGULATORY INFORMATION
Regulatory information with regard to this product in your country or in your region should be examined by your own responsibility.

Section 16 – OTHER INFORMATION
Information Contact
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-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:
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>
</tr>
</thead>
<tbody>
<tr>
<td>Mixture</td>
<td>Glycerin</td>
<td>8.79%</td>
<td>CH₂OHCH₂OH</td>
<td>(2)–242</td>
<td>Existing</td>
<td>56–81–5</td>
</tr>
<tr>
<td>Mixture</td>
<td>Ethylene glycol</td>
<td>10.47%</td>
<td>HOCH₂CH₂OH</td>
<td>(2)–230</td>
<td>Existing</td>
<td>107–21–1</td>
</tr>
</tbody>
</table>
Diethylene glycol 7.3% \( \text{HOCH}_2\text{CH}_2\text{OCH}_2\text{CH}_2\text{OH} \) (2)–415 Existing 111–46–6

Triethanolamine 1.9% \( \text{N(CH}_2\text{CH}_2\text{OH)}_3 \) (2)–308 Existing 102–71–6

Diethanolamine 0.12% \( \text{(HOCH}_2\text{CH}_2\text{)}_2\text{NH} \) (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.

Methods and Equipment for Containment and Cleaning up Vacuum or sweep up material and place in a disposal container.

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

Section 7 – HANDLING AND STORAGE

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

Precautions for Safe Handling Wash hand thoroughly after handling.

Avoid swallowing.

Avoid contact with eyes.

Protect from high temperature and direct sunlight.
Prevents Handling of Incompatible Substances or Mixtures

Storage Precautionary Statements
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Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance
Physical State
liquid

Form
liquid (viscous liquid)

Colour
purple

Odour
slight odor

Odour threshold
No data available

pH
No data available

Melting Point/Freezing Point
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