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 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
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)
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 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)
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)

<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>CH2OHCH (OH)C H2OH</td>
<td>(2)–242</td>
<td>Existing</td>
<td>56–81–5</td>
</tr>
<tr>
<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>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>Triethanolamine</td>
<td>1.37%</td>
<td>N(CH2CH2 OH)3</td>
<td>(2)–308</td>
<td>Existing</td>
<td>102–71–6</td>
</tr>
</tbody>
</table>
Ammonia Water

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

Prevention Measures for Secondary Accidents

Section 7 – HANDLING AND STORAGE

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”.

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.

Precautions for Safe Storage
Provide necessary protective equipment as described in “Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION”.

Refer to “Section 10 – STABILITY AND REACTIVITY”.

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

Storage Precautionary Statements

Conditions for Safe Storage

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

Section 10 – STABILITY AND REACTIVITY

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

Section 11 – TOXICOLOGICAL INFORMATION

- Acute Toxicity: No information available
- Skin Corrosion/Irritation: No data available
- Serious eye damage/eye irritation: No data available
- Respiratory Sensitization: No data available
- Skin Sensitization: No data available
- Germ Cell Mutagenicity: No data available
- Carcinogenicity: No data available
Reproductive Toxicity
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

Disposal should be in accordance with applicable regulations and standards by the respective local governments.
Commission a waste disposal company, or a local public body who are licensed by local or regional government, to dispose of the material.
Recycle containers after cleansing, or carry out the disposal under the related laws and regulations and the standards of the local governments.

Section 14 – TRANSPORT INFORMATION
International Regulations
Regulatory Information by Sea
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

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.</td>
</tr>
<tr>
<td></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>
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
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

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)

Precautionary Statements

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. (P304+P340)
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)
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

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

Distinction of Substance 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>
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<tbody>
<tr>
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<td>11.49%</td>
<td>CH2OHCH(OH)CH2OH</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>
</tr>
<tr>
<td>Diethylene glycol</td>
<td>10%</td>
<td>HOCH2CH2OH2CH2OH</td>
<td>(2)–415</td>
<td>Existing</td>
<td>111–46–6</td>
</tr>
<tr>
<td>Triethanolamine</td>
<td>0.95%</td>
<td>N(CH2CH2OH)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
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.
Use personal eye protection as required.
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>
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<td>Colour</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>
<td>No data available</td>
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<td>Initial Boiling Point and Boiling Ranges</td>
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<td>Flash Point</td>
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<td>Evaporation Rate</td>
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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>Kinematic viscosity</td>
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Section 10 - STABILITY AND REACTIVITY

<table>
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<th>Property</th>
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<td>Possibility of Hazardous Reaction</td>
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<tr>
<td>Conditions to Avoid</td>
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<tr>
<td>Incompatible Substances or Mixtures</td>
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<tr>
<td>Hazardous Decomposition</td>
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</table>

Section 11 - TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Toxicity</td>
<td>No information available</td>
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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>
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<tr>
<td>Skin Sensitization</td>
<td>No data available</td>
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<tr>
<td>Germ Cell Mutagenicity</td>
<td>No data available</td>
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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>
</tr>
<tr>
<td>Specific target organ toxicity (repeated exposure)</td>
<td>No data available</td>
</tr>
<tr>
<td>Aspiration Hazard</td>
<td>No data available</td>
</tr>
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</table>
Section 12 – ECOLOGICAL INFORMATION
Hazardous to the aquatic environment (acute)  No data available
Hazardous to the aquatic environment (long-term)  No data available
Hazardous to the ozone layer  No data available

Section 13 – DISPOSAL CONSIDERATIONS
Residual Waste  Disposal should be in accordance with applicable regulations and standards by the respective local governments. Commission a waste disposal company, or a local public body who are licensed by local or regional government, to dispose of the material.
Contaminated Container and Packaging  Recycle containers after cleansing, or carry out the disposal under the related laws and regulations and the standards of the local governments.

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

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

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

Preparation Date 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 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)

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

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

Disposal Precautionary Statements

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

Store locked up.(P405)
Inhalation
Get medical advice and attention if you feel unwell.

Skin Contact
Wash with soap and water.

Eye Contact
Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do.
Continue rinsing.
When the ocular stimulation lasts, Seek medical treatment and advice.

Ingestion
Rinse mouth. Do NOT induce vomiting.
Get medical advice and attention if you feel unwell.

Section 5 – FIRE FIGHTING MEASURES
Extinguishing Media
Dry chemicals, CO2, water spray or regular foam.

Section 6 – ACCIDENTAL RELEASE MEASURES
Environmental Precautions
Pay attention not to cause the influence on the environment by discharging into rivers.
This product is water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.

Methods and Equipment for Containment and Cleaning up
Vacuum or sweep up material and place in a disposal container.
Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. After removal, flush contaminated area thoroughly with water.
Prevention Measures for Secondary Accidents
Prevent flowing into drain, sewage, basement, and closed area.
Remove thoroughly since the smooth and slippery surface will be formed on the floor.

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

Precautions for Safe Handling
Wash hand thoroughly after handling.

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.
### Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></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>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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<tr>
<td>Vapour Pressure</td>
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<tr>
<td>Vapour Density</td>
<td>No data available</td>
</tr>
<tr>
<td>Specific Gravity (Density)</td>
<td>No data available</td>
</tr>
<tr>
<td>Partition Coefficient : n-Octanol/Water</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-Ignition</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition</td>
<td>No data available</td>
</tr>
<tr>
<td>Temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
</tr>
<tr>
<td>Kinematic viscosity</td>
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</tbody>
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### Section 10 - STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Reactivity</strong></td>
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</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>
</tbody>
</table>

### Section 11 - TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Acute Toxicity</strong></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</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
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.
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:
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
## 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. (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 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)
- 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 Precautionary Statements

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

## Disposal Precautionary Statements

- Do not handle until all safety precautions have been read and understood. (P202)
- Do not breathe mist, vapours and spray. (P261)
- Avoid breathing dust and fume. (P261)
- 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)

## Section 3 – COMPOSITION / INFORMATION ON INGREDIENTS

### Distinction of Substance or Mixture

<table>
<thead>
<tr>
<th>Chemical Name or Generic Name</th>
<th>Concentration or Its Ranges</th>
<th>Formula</th>
<th>ENCS No./ISHL No. ENCS No.</th>
<th>ISHL No.</th>
<th>CAS RN</th>
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</thead>
<tbody>
<tr>
<td>Glycerin</td>
<td>8.79%</td>
<td>CH2OHCH</td>
<td>(2)−242</td>
<td>Existing</td>
<td>56−81−5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(OH)C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>H2OH</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethylene glycol</td>
<td>10.47%</td>
<td>HOCH2CH</td>
<td>(2)−230</td>
<td>Existing</td>
<td>107−21−1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2OH</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Diethylene glycol | 7.3% | HOCH2CH2OH | 2-415 | Existing | 111-46-6
--- | --- | --- | --- | --- | ---
Triethanolamine | 1.9% | N(CH2CH2OH)3 | 2-308 | Existing | 102-71-6
Diethanolamine | 0.12% | (HOCH2CH2)2NH | -302, -354 | Existing | 111-42-2

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

No information available

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.
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
Personal Protective Equipment
Respiratory Protection
Hand Protection
Eye Protection
Skin and Body Protection

Good general ventilation should be sufficient to control airborne levels.
Use personal respiratory equipment as required.
Use personal gloves as required.
Use personal eye protection as required.
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>Category</th>
<th>Information Availability</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

<table>
<thead>
<tr>
<th>Category</th>
<th>Information Availability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazardous to the aquatic environment (acute)</td>
<td>No data available</td>
</tr>
<tr>
<td>Hazardous to the aquatic environment (long-term)</td>
<td>No data available</td>
</tr>
<tr>
<td>Hazardous to the ozone layer</td>
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</table>

### Section 13 – DISPOSAL CONSIDERATIONS

<table>
<thead>
<tr>
<th>Category</th>
<th>Information</th>
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<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>
</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>
</tr>
</tbody>
</table>

### Section 14 – TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>Category</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>International Regulations 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>International Regulations Regulatory Information by Air</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Regulations in Japan Regulatory Information by Road or Rail</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Regulations in Japan 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>
</tbody>
</table>
Regulatory Information by Air

Emergency Response Guide Number
Not applicable
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
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

<table>
<thead>
<tr>
<th>Chemical Identifier</th>
<th>WDR15-F1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Code</td>
<td>WDR15F1001</td>
</tr>
<tr>
<td>Company Name</td>
<td>PENTEL CO., LTD.</td>
</tr>
<tr>
<td>Address</td>
<td>7-2,KOAMICHO,NIHONBASHI,CHUO–KU,TOKYO</td>
</tr>
<tr>
<td>Company Contact</td>
<td>QUALITY ASSURANCE DEPARTMENT I</td>
</tr>
<tr>
<td>Phone Number</td>
<td>03–5695–7210</td>
</tr>
<tr>
<td>Fax Number</td>
<td>03–5645–8204</td>
</tr>
<tr>
<td>Mail Address</td>
<td><a href="mailto:hinpo@pentel.co.jp">hinpo@pentel.co.jp</a></td>
</tr>
<tr>
<td>Emergency Phone</td>
<td>03–5695–7210</td>
</tr>
<tr>
<td>Mail Address</td>
<td><a href="mailto:hinpo@pentel.co.jp">hinpo@pentel.co.jp</a></td>
</tr>
<tr>
<td>Phone Number</td>
<td>03–5695–7210</td>
</tr>
</tbody>
</table>

Recommended Use and Restriction on Use:
- BGR2, BGR3, BGR4, BGR5, BGR7, BG202, BG203, BG204, BG205, BG207–F1

### Section 2 – HAZARDS IDENTIFICATION

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

### GHS Label Elements

#### Symbols

- ![Symbol Image]

#### 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>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>HOCH2CH 2OH</td>
<td>(2)–230 Existing</td>
<td>107–21–1</td>
</tr>
<tr>
<td>Diethylene glycol</td>
<td>10%</td>
<td>HOCH2CH2OHCH2C 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

Response
Precautionary Statements

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.(P304+P340)
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.(P305+P351+P338)
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
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 ON SKIN: Wash with plenty of soap and water.(P302+P352)
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.

Ingestion
Rinse mouth. Do NOT induce vomiting.
Get medical advice and attention if you feel unwell.

Section 5 - FIRE FIGHTING MEASURES
Extinguishing Media
Dry chemicals, CO2, water spray or regular foam.

Section 6 - ACCIDENTAL RELEASE MEASURES
Environmental Precautions
Pay attention not to cause the influence on the environment by discharging into rivers.
This product is water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.

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

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

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

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

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

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

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

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

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

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

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>liquid</td>
</tr>
<tr>
<td>Physical State</td>
<td>liquid (viscous 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>
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<tr>
<td>Flash Point</td>
<td>No data available</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability or Explosive Limits</td>
<td>No data available</td>
</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>
</tr>
<tr>
<td>Vapour Density</td>
<td>No data available</td>
</tr>
<tr>
<td>Specific Gravity (Density)</td>
<td>No data available</td>
</tr>
<tr>
<td>Partition Coefficient : n-Octanol/Water</td>
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</tr>
<tr>
<td>Auto-Ignition</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition</td>
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</tr>
<tr>
<td>Temperature</td>
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<td>Viscosity</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>
</tr>
</thead>
<tbody>
<tr>
<td>Reactivity</td>
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<tr>
<td>Chemical stability</td>
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<td>Possibility of Hazardous Reaction</td>
<td>No data available</td>
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<tr>
<td>Conditions to Avoid</td>
<td>No data available</td>
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<tr>
<td>Incompatible Substances or Mixtures</td>
<td>No data available</td>
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<tr>
<td>Hazardous Decomposition Products</td>
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</table>

Section 11 - TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Toxicity</td>
<td>No information available</td>
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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>
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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>
</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>
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</tr>
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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
Regulatory Information by 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.
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, KOMACHI, NIHONBASHI, CHUO-KU, TOKYO
Company Contact  QUALITY ASSURANCE DEPARTMENT I
Phone Number  03-5695–7210
Fax Number  03-5645–8204
Mail Address  hinpo@pentel.co.jp
Emergency Phone  03-5695–7210
Recommended Use and Restriction on Use  ink

BGR2, 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
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**
- **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>HOCH2CH2OH</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**

No information available

Section 4 – FIRST AID MEASURES
Inhalation
Get medical advice and attention if you feel unwell.

Skin Contact
Wash with soap and water.

Eye Contact
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. When the ocular stimulation lasts, seek medical treatment and advice.

Ingestion
Rinse mouth. Do NOT induce vomiting. Get medical advice and attention if you feel unwell.

Section 5 – FIRE FIGHTING MEASURES
Extinguishing Media
Dry chemicals, CO2, water spray or regular foam.

Section 6 – ACCIDENTAL RELEASE MEASURES
Environmental Precautions
Pay attention not to cause the influence on the environment by discharging into rivers. This product is water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.

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

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. Refer to "Section 10 – STABILITY AND REACTIVITY".

Prevents Handling of Incompatible Substances or Mixtures

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
Use personal respiratory equipment as required.

Respiratory Protection
Use personal gloves as required.
<table>
<thead>
<tr>
<th>Section</th>
<th>Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>PHYSICAL AND CHEMICAL PROPERTIES</td>
</tr>
<tr>
<td>Appearance</td>
<td>Physical State</td>
</tr>
<tr>
<td>Form</td>
<td>Colour</td>
</tr>
<tr>
<td>Odour</td>
<td>Odour threshold</td>
</tr>
<tr>
<td>pH</td>
<td>Melting Point/Freezing Point</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>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
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<tr>
<td>Flammability or Explosive Limits</td>
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<tr>
<td>Decomposition</td>
<td>No data available</td>
</tr>
<tr>
<td>Temperature</td>
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<tr>
<td>Viscosity</td>
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<tr>
<td>Kinematic viscosity</td>
<td>No data available</td>
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<tr>
<td>10</td>
<td>STABILITY AND REACTIVITY</td>
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<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 Products</td>
<td>No data available</td>
</tr>
<tr>
<td>11</td>
<td>TOXICOLOGICAL INFORMATION</td>
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<tr>
<td>Acute Toxicity</td>
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<tr>
<td>Skin Corrosion/Irritation</td>
<td>No data available</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>No data available</td>
</tr>
<tr>
<td>Respiratory Sensitization</td>
<td>No data available</td>
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<tr>
<td>Skin Sensitization</td>
<td>No data available</td>
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<tr>
<td>Germ Cell Mutagenicity</td>
<td>No data available</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>No data available</td>
</tr>
<tr>
<td>Reproductive Toxicity</td>
<td>No data available</td>
</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>

Use personal eye protection as required.
Use personal protective clothing and face protection as required.
Section 12 – ECOLOGICAL INFORMATION

Hazardous to the aquatic environment (acute)  
No data available

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

Hazardous to the ozone layer  
No data available

Section 13 – DISPOSAL CONSIDERATIONS

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

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.
Safety Data Sheet (SDS)

Preparation Date 2016/01/08
Revision Date 2019/02/05

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  03-5695-7210

Recommended Use  ink

Recommended Use and Restriction on Use  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

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>CH2OHCH(OH)C H2OH</td>
<td>(2)–242</td>
<td>Existing</td>
</tr>
<tr>
<td>Mixture</td>
<td>Ethylene glycol</td>
<td>10.47%</td>
<td>HOCH2CH2OH</td>
<td>(2)–230</td>
<td>Existing</td>
</tr>
</tbody>
</table>
Diethylene glycol 7.3% HOCH2CH2OH (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
Skin Contact
Eye Contact

Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media

Dry chemicals, CO2, water spray or regular foam.

Section 6 - ACCIDENTAL RELEASE MEASURES

Environmental Precautions

Pay attention not to cause the influence on the environment by discharging into rivers. This product is water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.

Methods and Equipment for Containment and Cleaning up

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

Prevention Measures for Secondary Accidents

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

Section 7 - HANDLING AND STORAGE

Handling Technical Measures

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

Precautions for Safe Handling

Wash hand thoroughly after handling.

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

Prevent Handling of Incompatible Substances or Mixtures

Refer to “Section 10 – STABILITY AND REACTIVITY”.

Avoid contact with eyes.
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

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
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

Disposal should be in accordance with applicable regulations and standards by the respective local governments.
Commission a waste disposal company, or a local public body who are licensed by local or regional government, to dispose of the material.
Recycle containers after cleansing, or carry out the disposal under the related laws and regulations and the standards of the local governments.

Section 14 – TRANSPORT INFORMATION
International Regulations
Regulatory Information by Sea
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
Not applicable
Not applicable
Not applicable
Not applicable
Not applicable
Not applicable
Not applicable
Not applicable
No data available
No data available
No data available
No data available
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
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-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  03-5695-7210

Recommended 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 fumes. (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)
- 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)
- 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 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
Precautionary Statements

- Contaminated work clothing should not be allowed out of the workplace. (P272)
- Wear protective clothing and 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)
- Immediately call a doctor. (P310)
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- 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

**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>CH(<em>{2})OHCH(\text{OH})C H(</em>{2})OH</td>
<td>(2)–242</td>
<td>Existing 56–81–5</td>
</tr>
<tr>
<td>Ethylene glycol</td>
<td>10.47%</td>
<td>HOCH(<em>{2})CH(</em>{2})OH</td>
<td>(2)–230</td>
<td>Existing 107–21–1</td>
</tr>
</tbody>
</table>
Diethylene glycol 7.3% HOCH₂CH₂OH (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

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.
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.

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: purple

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-

No data available

Octanol/Water

No data available

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

Acute Toxicity
Skin Corrosion/Irritation
Serious eye damage/eye irritation
Respiratory Sensitization
Skin Sensitization
Germ Cell Mutagenicity
Carcinogenicity
Reproductive Toxicity
Specific target organ toxicity (single exposure)
Specific target organ toxicity (repeated exposure)
Aspiration Hazard

Section 12 – ECOLOGICAL INFORMATION

Hazardous to the aquatic environment (acute)
Hazardous to the aquatic environment (long-term)
Hazardous to the ozone layer

Section 13 – DISPOSAL CONSIDERATIONS

Residual Waste
Contaminated Container and Packaging

Disposal should be in accordance with applicable regulations and standards by the respective local governments.
Commission a waste disposal company, or a local public body who are licensed by local or regional government, to dispose of the material.
Recycle containers after cleansing, or carry out the disposal under the related laws and regulations and the standards of the local governments.

Section 14 – TRANSPORT INFORMATION

International Regulations
Regulatory Information by Sea
Marine Pollutant Transport in bulk according to MARPOL 73/78, Annex II, and the IBC code

Regulatory Information by Air

Regulatory Information by Road or Rail

Regulatory Information by Sea
Marine Pollutant Transport in bulk according to MARPOL 73/78, Annex II, and the IBC code

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.