

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 ink
 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	<p>Use only outdoors or in a well-ventilated area.(P271)</p> <p>Obtain special instructions before use.(P201)</p> <p>Do not handle until all safety precautions have been read and understood.(P202)</p> <p>Do not breathe mist, vapours and spray.(P260)</p> <p>Wash hand thoroughly after handling.(P264)</p> <p>Wash eye thoroughly after handling.(P264)</p> <p>Do not eat, drink or smoke when using this product.(P270)</p> <p>Contaminated work clothing should not be allowed out of the workplace.(P272)</p> <p>Wear protective gloves.(P280)</p> <p>Wear eye protection and face protection.(P280)</p> <p>IF ON SKIN: Wash with plenty of soap and water.(P302+P352)</p> <p>IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.(P304+P340)</p> <p>Call a doctor if you feel unwell.(P312)</p> <p>If skin irritation occurs: Get medical advice and attention.(P332+P313)</p> <p>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.(P305+P351+P338)</p> <p>IF exposed or concerned: Get medical advice and attention.(P308+P313)</p> <p>Get medical advice and attention if you feel unwell.(P314)</p> <p>If skin irritation or rash occurs, get medical advice and attention.(P333+P313)</p> <p>If eye irritation persists: Get medical advice and attention.(P337+P313)</p> <p>Take off contaminated clothing and wash it before reuse.(P362+P364)</p> <p>Store locked up.(P405)</p>
Storage Precautionary Statements Disposal Precautionary Statements	<p>Dispose of contents and container in accordance with local, regional and national regulations (to be specified).(P501)</p>

Section 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Distinction of Substance
or Mixture

Mixture

Chemical Name or Generic Name	Concentration or Its Ranges	Formula	ENCS No./ISHL No.		CAS RN
			ENCS No.	ISHL No.	
Glycerin	11.49%	CH ₂ OHCH (OH)C H ₂ OH	(2)-242	Existing	56-81-5
Ethylene glycol	5%	HOCH ₂ CH 2OH	(2)-230	Existing	107-21-1
Diethylene glycol	10%	HOCH ₂ CH 2OCH ₂ C H ₂ OH	(2)-415	Existing	111-46-6
Triethanolamine	1.37%	N(CH ₂ CH ₂ OH) ₃	(2)-308	Existing	102-71-6

Ammonia Water	0.8%		(1)-314	Existing	1336-21-6
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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.

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

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 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	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
Other Property

No information available

This information is furnished without warranty
express or implied.

This information is believed to be accurate to the
best knowledge of PENTEL Co., Ltd. but not
assumes leagal responsibility for use of or reliance
upon this information.

Safety Data Sheet (SDS)

Preparation Date 2014/10/29

Revision Date 2019/02/05

Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier WDR15-B
 Product Code WDR15B0001
 Company Name PENTEL CO., LTD.
 Address 7-2,KOAMICHO,NIHONBASHI,CHUO-KU,TOKYO
 Company Contact QUALITY ASSURANCE DEPARTMENT I
 Phone Number 03-5695-7210
 Fax Number 03-5645-8204
 Mail Address hinpo@pentel.co.jp
 Emergency Phone Number 03-5695-7210
 Recommended Use ink
 and Restriction on Use
 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	<p>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)</p> <p>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)</p>
Storage Precautionary Statements Disposal Precautionary Statements	<p>Dispose of contents and container in accordance with local, regional and national regulations (to be specified).(P501)</p>

Section 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Distinction of Substance
or Mixture

Mixture

Chemical Name or Generic Name	Concentration or Its Ranges	Formula	ENCS No./ISHL No.		CAS RN
			ENCS No.	ISHL No.	
Glycerin	11.49%	CH ₂ OHCH (OH)C H ₂ OH	(2)-242	Existing	56-81-5
Ethylene glycol	5%	HOCH ₂ CH 2OH	(2)-230	Existing	107-21-1
Diethylene glycol	10%	HOCH ₂ CH 2OCH ₂ C H ₂ OH	(2)-415	Existing	111-46-6
Triethanolamine	0.95%	N(CH ₂ CH ₂ OH) ₃	(2)-308	Existing	102-71-6

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.
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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.
Storage Precautionary Statements	Prevents Handling of Incompatible Substances or Mixtures	Refer to "Section 10 – STABILITY AND REACTIVITY".
	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	red
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 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 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 Not applicable
	Regulatory Information by Air	Not applicable
Regulations in Japan	Regulatory Information by Road or Rail	Not applicable
	Regulatory Information by Sea	Not applicable
	Marine Pollutant Transport in bulk according to MARPOL 73/78,Annex II ,and the IBC code	Not applicable 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-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	<p>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)</p> <p>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)</p>
Storage Precautionary Statements	Store locked up.(P405)
Disposal Precautionary Statements	Dispose of contents and container in accordance with local, regional and national regulations (to be specified).(P501)

Section 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Distinction of Substance
or Mixture

Mixture

Chemical Name or Generic Name	Concentration or Its Ranges	Formula	ENCS No./ISHL No.		CAS RN
			ENCS No.	ISHL No.	
Glycerin	11.49%	CH ₂ OHCH (OH)C H ₂ OH	(2)-242	Existing	56-81-5
Ethylene glycol	5%	HOCH ₂ CH 2OH	(2)-230	Existing	107-21-1
Diethylene glycol	10%	HOCH ₂ CH 2OCH ₂ C H ₂ OH	(2)-415	Existing	111-46-6
Triethanolamine	0.95%	N(CH ₂ CH ₂ OH) ₃	(2)-308	Existing	102-71-6

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.
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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.
Storage Precautionary Statements	Prevents Handling of Incompatible Substances or Mixtures	Refer to "Section 10 – STABILITY AND REACTIVITY".
	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	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	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 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 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 Not applicable
	Regulatory Information by Air	Not applicable
Regulations in Japan	Regulatory Information by Road or Rail	Not applicable
	Regulatory Information by Sea	Not applicable
	Marine Pollutant Transport in bulk according to MARPOL 73/78,Annex II ,and the IBC code	Not applicable 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 ink
 and Restriction on Use
 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.(P201) Do not handle until all safety precautions have been read and understood.(P202) Do not breathe mist, vapours and spray.(P260) Wash hand thoroughly after handling.(P264) Do not eat, drink or smoke when using this product.(P270) Contaminated work clothing should not be allowed out of the workplace.(P272) Wear protective gloves.(P280)
Response Precautionary Statements	IF ON SKIN: Wash with plenty of soap and water.(P302+P352) 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	
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

Mixture

Chemical Name or Generic Name	Concentration or Its Ranges	Formula	ENCs No./ISHL No.		CAS RN
			ENCs No.	ISHL No.	
Glycerin	8.79%	CH ₂ OHCH (OH)C H ₂ OH	(2)-242	Existing	56-81-5
Ethylene glycol	10.47%	HOCH ₂ CH 2OH	(2)-230	Existing	107-21-1

Diethylene glycol	7.3%	HOCH ₂ CH 2OCH ₂ C H ₂ OH	(2)-415	Existing	111-46-6
Triethanolamine	1.9%	N(CH ₂ CH ₂ OH) ₃	(2)-308	Existing	102-71-6
Diethanolamine	0.12%	(HOCH ₂ C H ₂) ₂ NH	(2)- 302,(2)- 354	Existing	111-42-2

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.

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)
	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 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	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 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-F1
 Product Code WDR15F1001
 Company Name PENTEL CO., LTD.
 Address 7-2,KOAMICHO,NIHONBASHI,CHUO-KU,TOKYO
 Company Contact QUALITY ASSURANCE DEPARTMENT I
 Phone Number 03-5695-7210
 Fax Number 03-5645-8204
 Mail Address hinpo@pentel.co.jp
 Emergency Phone Number 03-5695-7210
 Recommended Use ink
 and Restriction on Use
 BGR2,BGR3,BGR4,BGR5,BGR7,BG202,BG203,BG204,BG205,BG207-F1

Section 2 – HAZARDS IDENTIFICATION

GHS Classification

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

GHS Label Elements

Symbols



Signal Word Danger
 Hazard Statements H315 Causes skin irritation
 H319 Causes serious eye irritation
 H332 Harmful if inhaled
 H361 Suspected of damaging fertility or the unborn child
 H371 May cause damage to blood,kidney,central nervous system
 Precautionary Statements
 Prevention Avoid breathing mist, vapours and spray.(P261)
 Precautionary Statements
 Avoid breathing dust and fume.(P261)
 Wash eye thoroughly after handling.(P264)
 Use only outdoors or in a well-ventilated area.(P271)

Response Precautionary Statements	<p>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)</p> <p>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)</p>
Storage Precautionary Statements	Store locked up.(P405)
Disposal Precautionary Statements	Dispose of contents and container in accordance with local, regional and national regulations (to be specified).(P501)

Section 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Distinction of Substance
or Mixture

Mixture

Chemical Name or Generic Name	Concentration or Its Ranges	Formula	ENCS No./ISHL No.		CAS RN
			ENCS No.	ISHL No.	
Glycerin	11.49%	CH ₂ OHCH (OH)C H ₂ OH	(2)-242	Existing	56-81-5
Ethylene glycol	5%	HOCH ₂ CH 2OH	(2)-230	Existing	107-21-1
Diethylene glycol	10%	HOCH ₂ CH 2OCH ₂ C H ₂ OH	(2)-415	Existing	111-46-6
Triethanolamine	0.95%	N(CH ₂ CH ₂ OH) ₃	(2)-308	Existing	102-71-6

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. Avoid swallowing. Avoid contact with eyes. Protect from high temperature and direct sunlight.
Storage Precautionary Statements	Prevents Handling of Incompatible Substances or Mixtures	Refer to "Section 10 – STABILITY AND REACTIVITY".
	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	orange
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 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 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 Not applicable
Regulations in Japan	Regulatory Information by Air	Not applicable
	Regulatory Information by Road or Rail	Not applicable
	Regulatory Information by Sea	Not applicable
	Marine Pollutant Transport in bulk according to MARPOL 73/78, Annex II, and the IBC code	Not applicable Not applicable
Emergency Response Guide Number	Regulatory Information by Air	Not applicable

Section 15 – REGULATORY INFORMATION

Regulatory information with regard to this product in your country or in your region should be examined by your own responsibility.

Section 16 – OTHER INFORMATION

Information Contact	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,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,BGR7,BG202,BG203,BG204,BG205,BG207-P1

Section 2 – HAZARDS IDENTIFICATION

GHS Classification

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

GHS Label Elements

Symbols



Signal Word Danger
 Hazard Statements H315 Causes skin irritation
 H319 Causes serious eye irritation
 H332 Harmful if inhaled
 H361 Suspected of damaging fertility or the unborn child
 H371 May cause damage to blood,kidney,central nervous system
 Precautionary Statements
 Prevention Avoid breathing mist, vapours and spray.(P261)
 Precautionary Statements
 Avoid breathing dust and fume.(P261)
 Wash eye thoroughly after handling.(P264)
 Use only outdoors or in a well-ventilated area.(P271)

Response Precautionary Statements	<p>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)</p> <p>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)</p>
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
or Mixture

Mixture

Chemical Name or Generic Name	Concentration or Its Ranges	Formula	ENCS No./ISHL No.		CAS RN
			ENCS No.	ISHL No.	
Glycerin	11.49%	CH ₂ OHCH (OH)C H ₂ OH	(2)-242	Existing	56-81-5
Ethylene glycol	5%	HOCH ₂ CH 2OH	(2)-230	Existing	107-21-1
Diethylene glycol	10%	HOCH ₂ CH 2OCH ₂ C H ₂ OH	(2)-415	Existing	111-46-6
Triethanolamine	0.95%	N(CH ₂ CH ₂ OH) ₃	(2)-308	Existing	102-71-6

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. 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

Appearance	Physical State	liquid
	Form	liquid (viscous liquid)
	Colour	ピンク
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 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 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 Not applicable
	Regulatory Information by Air	Not applicable
Regulations in Japan	Regulatory Information by Road or Rail	Not applicable
	Regulatory Information by Sea	Not applicable
	Marine Pollutant Transport in bulk according to MARPOL 73/78, Annex II, and the IBC code	Not applicable 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-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,BG205-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

Prevention Precautionary Statements	Avoid breathing mist, vapours and spray.(P261) Avoid breathing dust and fume.(P261) Use only outdoors or in a well-ventilated area.(P271) Avoid release to the environment.(P273) Wear eye protection and face protection.(P280) Obtain special instructions before use.(P201) Do not handle until all safety precautions have been read and understood.(P202) Do not breathe mist, vapours and spray.(P260) Wash hand thoroughly after handling.(P264) Do not eat, drink or smoke when using this product.(P270) Contaminated work clothing should not be allowed out of the workplace.(P272) Wear protective gloves.(P280)
Response Precautionary Statements	IF ON SKIN: Wash with plenty of soap and water.(P302+P352) 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	
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

Mixture

Chemical Name or Generic Name	Concentration or Its Ranges	Formula	ENCS No./ISHL No.		CAS RN
			ENCS No.	ISHL No.	
Glycerin	8.79%	CH ₂ OHCH (OH)C H ₂ OH	(2)-242	Existing	56-81-5
Ethylene glycol	10.47%	HOCH ₂ CH 2OH	(2)-230	Existing	107-21-1

Diethylene glycol	7.3%	HOCH ₂ CH 2OCH ₂ C H ₂ OH	(2)-415	Existing	111-46-6
Triethanolamine	1.9%	N(CH ₂ CH ₂ OH) ₃	(2)-308	Existing	102-71-6
Diethanolamine	0.12%	(HOCH ₂ C H ₂) ₂ NH	(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

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.

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 Hand Protection Eye Protection Skin and Body Protection	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	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	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 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 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	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 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-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 ink
 and Restriction on Use
 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

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Diethylene glycol	7.3%	HOCH ₂ CH 2OCH ₂ C H ₂ OH	(2)-415	Existing	111-46-6
Triethanolamine	1.9%	N(CH ₂ CH ₂ OH) ₃	(2)-308	Existing	102-71-6
Diethanolamine	0.12%	(HOCH ₂ C H ₂) ₂ NH	(2)- 302,(2)- 354	Existing	111-42-2

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Stabilizing Additives which
Contribute to the

No information available

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Extinguishing Media

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Cleaning up

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After removal, flush contaminated area thoroughly
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Handling

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	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
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Emergency Response Guide Number		Not applicable

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