

## 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 <sub>2</sub> OHCH (OH)C H <sub>2</sub> OH	(2)-242	Existing	56-81-5
Ethylene glycol	5%	HOCH <sub>2</sub> CH 2OH	(2)-230	Existing	107-21-1
Diethylene glycol	10%	HOCH <sub>2</sub> CH 2OCH <sub>2</sub> C H <sub>2</sub> OH	(2)-415	Existing	111-46-6
Triethanolamine	1.37%	N(CH <sub>2</sub> CH <sub>2</sub> OH) <sub>3</sub>	(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 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 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 <sub>2</sub> OHCH (OH)C H <sub>2</sub> OH	(2)-242	Existing	56-81-5
Ethylene glycol	5%	HOCH <sub>2</sub> CH 2OH	(2)-230	Existing	107-21-1
Diethylene glycol	10%	HOCH <sub>2</sub> CH 2OCH <sub>2</sub> C H <sub>2</sub> OH	(2)-415	Existing	111-46-6
Triethanolamine	0.95%	N(CH <sub>2</sub> CH <sub>2</sub> OH) <sub>3</sub>	(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.
	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	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
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-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 <sub>2</sub> OHCH (OH)C H <sub>2</sub> OH	(2)-242	Existing	56-81-5
Ethylene glycol	5%	HOCH <sub>2</sub> CH 2OH	(2)-230	Existing	107-21-1
Diethylene glycol	10%	HOCH <sub>2</sub> CH 2OCH <sub>2</sub> C H <sub>2</sub> OH	(2)-415	Existing	111-46-6
Triethanolamine	0.95%	N(CH <sub>2</sub> CH <sub>2</sub> OH) <sub>3</sub>	(2)-308	Existing	102-71-6

Impurities and/or  
Stabilizing Additives which  
Contribute to the

No information available

## Section 4 – FIRST AID MEASURES



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
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 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 <sub>2</sub> OHCH (OH)C H <sub>2</sub> OH	(2)-242	Existing	56-81-5
Ethylene glycol	10.47%	HOCH <sub>2</sub> CH 2OH	(2)-230	Existing	107-21-1

Diethylene glycol	7.3%	HOCH <sub>2</sub> CH 2OCH <sub>2</sub> C H <sub>2</sub> OH	(2)-415	Existing	111-46-6
Triethanolamine	1.9%	N(CH <sub>2</sub> CH <sub>2</sub> OH) <sub>3</sub>	(2)-308	Existing	102-71-6
Diethanolamine	0.12%	(HOCH <sub>2</sub> C H <sub>2</sub> ) <sub>2</sub> 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, CO<sub>2</sub>, 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	Not applicable
	Information by Air	
Emergency Response		Not applicable
Guide Number		

**Section 15 – REGULATORY INFORMATION**

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

**Section 16 – OTHER INFORMATION**

Information Contact  
Other Property

No information available  
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 <sub>2</sub> OHCH (OH)C H <sub>2</sub> OH	(2)-242	Existing	56-81-5
Ethylene glycol	5%	HOCH <sub>2</sub> CH 2OH	(2)-230	Existing	107-21-1
Diethylene glycol	10%	HOCH <sub>2</sub> CH 2OCH <sub>2</sub> C H <sub>2</sub> OH	(2)-415	Existing	111-46-6
Triethanolamine	0.95%	N(CH <sub>2</sub> CH <sub>2</sub> OH) <sub>3</sub>	(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	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 PENDEL 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)</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 <sub>2</sub> OHCH (OH)C H <sub>2</sub> OH	(2)-242	Existing	56-81-5
Ethylene glycol	5%	HOCH <sub>2</sub> CH 2OH	(2)-230	Existing	107-21-1
Diethylene glycol	10%	HOCH <sub>2</sub> CH 2OCH <sub>2</sub> C H <sub>2</sub> OH	(2)-415	Existing	111-46-6
Triethanolamine	0.95%	N(CH <sub>2</sub> CH <sub>2</sub> OH) <sub>3</sub>	(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	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
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 PENDEL 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 Number 03-5695-7210  
 Recommended Use ink  
 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**

Prevention Precautionary Statements	Obtain special instructions before use.(P201)  Avoid breathing mist, vapours and spray.(P261) Avoid breathing dust and fume.(P261) Use only outdoors or in a well-ventilated area.(P271) Do not handle until all safety precautions have been read and understood.(P202) Do not breathe mist, vapours and spray.(P260) Wash hand thoroughly after handling.(P264) Wash eye thoroughly after handling.(P264) Do not eat, drink or smoke when using this product.(P270) Contaminated work clothing should not be allowed out of the workplace.(P272) Avoid release to the environment.(P273) Wear protective gloves.(P280) Wear eye protection and face protection.(P280)
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) 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)
Storage Precautionary Statements  Disposal Precautionary Statements	Store locked up.(P405)  Dispose of contents and container in accordance with local, regional and national regulations (to be specified).(P501)

## Section 3 – COMPOSITION / INFORMATION ON INGREDIENTS

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 <sub>2</sub> OHCH (OH)C H <sub>2</sub> OH	(2)-242	Existing	56-81-5
Ethylene glycol	10.47%	HOCH <sub>2</sub> CH 2OH	(2)-230	Existing	107-21-1

Diethylene glycol	7.3%	HOCH <sub>2</sub> CH 2OCH <sub>2</sub> C H <sub>2</sub> OH	(2)-415	Existing	111-46-6
Triethanolamine	2.6%	N(CH <sub>2</sub> CH <sub>2</sub> OH) <sub>3</sub>	(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, CO<sub>2</sub>, 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.
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#### 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	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 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 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-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

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 <sub>2</sub> OHCH (OH)C H <sub>2</sub> OH	(2)-242	Existing	56-81-5
Ethylene glycol	10.47%	HOCH <sub>2</sub> CH 2OH	(2)-230	Existing	107-21-1



Diethylene glycol	7.3%	HOCH <sub>2</sub> CH 2OCH <sub>2</sub> C H <sub>2</sub> OH	(2)-415	Existing	111-46-6
Triethanolamine	1.9%	N(CH <sub>2</sub> CH <sub>2</sub> OH) <sub>3</sub>	(2)-308	Existing	102-71-6
Diethanolamine	0.12%	(HOCH <sub>2</sub> C H <sub>2</sub> ) <sub>2</sub> 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, CO<sub>2</sub>, 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	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	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.