

## Safety Data Sheet (SDS)

Preparation Date 2014/10/29

Revision Date 2016/01/12

## 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 048-928-6668  
 Fax Number 048-928-9190  
 Mail Address hinpo@pentel.co.jp  
 Emergency Phone Number 048-928-6668  
 Recommended Use and Restriction on Use ink

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

## Section 2 – HAZARDS IDENTIFICATION

## GHS Classification

Health Hazards Serious eye damage/eye irritation Category 2A  
 Sensitization – skin Category 1  
 Reproductive toxicity Category 2  
 Specific target organ toxicity (single exposure)  
 Category 2(respiratory  
 apparatus,heart,kidney,central nervous system)  
 Specific target organ toxicity (repeated exposure)  
 Category 1(liver,kidney)  
 Specific target organ toxicity (repeated exposure)  
 Category 2(respiratory apparatus,heart,central  
 nervous system)  
 Environmental Hazards Hazard to the aquatic environment (acute hazard)  
 Category 3  
 Hazard to the aquatic environment (long-term  
 hazard) Category 3  
 Other hazards than mentioned above are Not  
 applicable or No data available.

## GHS Label Elements

## Symbols



Signal Word Danger  
 Hazard Statements 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 respiratory  
 apparatus,heart,kidney,central nervous system  
 H373 May cause damage to respiratory  
 apparatus,heart,central nervous system through  
 prolonged or repeated exposure



Impurities and/or  
Stabilizing Additives which  
Contribute to the

No information available

Section 4 – FIRST AID MEASURES

Inhalation

Remove person to fresh air and keep comfortable for breathing.  
IF exposed or concerned: Get medical advice and attention.  
Get medical advice and attention if you feel unwell.

Skin Contact

Wash with plenty of soap and water.  
Wash contaminated clothing before reuse.  
If skin irritation or rash occurs, get medical advice and attention.  
Immediately rinse skin with water.  
Get medical advice and attention if you feel unwell.

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.  
Call a doctor if you feel unwell.

Ingestion

Rinse mouth.  
Get medical advice and attention if you feel unwell.

Section 5 – FIRE FIGHTING MEASURES

Protection of Fire Figther

In fire fighting, wear respiratory protection and chemical protective clothing.

Section 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions,  
Protective Equipment and  
Emergency Procedures

Keep unauthorized personnel away.

Environmental

Wear appropriate personal protective equipment (Refer to "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION") and avoid inhalation or contact with eyes and skin.  
Do not release into the environment.  
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.  
After removal, flush contaminated area thoroughly with water.

Methods and Equipment  
for Containment and  
Cleaning up

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

Prevention Measures for  
Secondary Accidents

Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container.  
Removes all ignition sources promptly. (Prohibition of smoking, sparks, and flames in the surrounding area).  
Remove thoroughly since the smooth and slippery surface will be formed on the floor.

Prevent flowing into drain, sewage, basement, and closed area.

**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** Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.  
 Do not eat, drink or smoke when using this product.  
 Wash hand thoroughly after handling.  
 Do not breathe mist, vapours and spray.  
 Ventilate the exhaust to keep the concentration in the air below the exposure limit.  
 Contaminated work clothing should not be allowed out of the workplace.  
 Do not contact, breathe or swallow.  
 Avoid release to the environment.

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

**Specific Hygiene Measures** Wash hand thoroughly after handling.

Contaminated work clothing should not be allowed out of the workplace.

**Storage Precautionary Statements**

**Technical Measures** The storage facility should be provided with necessary lighting, lighting equipment, and ventilator to store and handle dangerous goods. Refer to "Section 10 – STABILITY AND REACTIVITY".  
 Store locked up.

**Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION**

Engineering Controls

Good general ventilation should be sufficient to control airborne levels.  
 Facilities storing or utilizing this product should be equipped with an eyewash facility and safety shower.

Personal Protective Equipment

**Respiratory Protection** Use personal respiratory equipment as required.

Wear an adequate protective apparatus for respiratory organs.

**Hand Protection** Wear protective gloves.

**Eye Protection** Wear eye protection.

Protection glasses (ordinary glasses, ordinary glasses with side shields, and goggles).

**Skin and Body Protection** Wear face 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
<b>Section 10 – STABILITY AND REACTIVITY</b>		
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
<b>Section 11 – TOXICOLOGICAL INFORMATION</b>		
Acute Toxicity		No information available
Skin Corrosion/Irritation		No data available
Serious eye damage/eye irritation		No data available
Respiratory or 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
<b>Section 12 – ECOLOGICAL INFORMATION</b>		
Hazard to the aquatic environment (acute)		No data available
Hazard to the aquatic environment (long-term hazard)		No data available

Hazard 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.

In case of disposal of empty containers, remove the content thoroughly.

## Section 14 – TRANSPORT INFORMATION

International Regulations

Regulatory Information by Sea

Not applicable

Marine Pollutant

Not applicable

Transport in bulk according to

Not applicable

MARPOL

73/78, Annex II, and the IBC code

Regulatory Information by Air

Not applicable

Regulations in Japan

Regulatory Information by Road or Rail

Not applicable

Regulatory

Not applicable

Information by Sea

Marine Pollutant

Not applicable

Transport in bulk according to

Not applicable

MARPOL

73/78, Annex II, and the IBC code

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 2016/01/12

## 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 048-928-6668  
 Fax Number 048-928-9190  
 Mail Address hinpo@pentel.co.jp  
 Emergency Phone Number 048-928-6668  
 Recommended Use and Restriction on Use ink  
 BGR2, BGR3, BGR4, BGR5, BGR7, BG202, BG203, BG204, BG205, BG207-B

## Section 2 – HAZARDS IDENTIFICATION

## GHS Classification

Health Hazards Reproductive toxicity Category 2  
 Specific target organ toxicity (single exposure)  
 Category 2(respiratory apparatus,heart,kidney,central nervous system)  
 Specific target organ toxicity (repeated exposure)  
 Category 1(liver,kidney)  
 Specific target organ toxicity (repeated exposure)  
 Category 2(respiratory apparatus,heart,central nervous system)  
 Other hazards than mentioned above are Not applicable or No data available.

## GHS Label Elements

## Symbols



Signal Word Danger  
 Hazard Statements H361 Suspected of damaging fertility or the unborn child  
 H371 May cause damage to respiratory apparatus,heart,kidney,central nervous system  
 H373 May cause damage to respiratory apparatus,heart,central nervous system through prolonged or repeated exposure  
 Precautionary Statements  
 Prevention Obtain special instructions before use.(P201)  
 Precautionary Statements  
 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)





Personal Precautions, Protective Equipment and Emergency Procedures		Wear appropriate personal protective equipment (Refer to "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION") and avoid inhalation or contact with eyes and skin.
Environmental Precautions		This product is water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water. After removal, flush contaminated area thoroughly with 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. Removes all ignition sources promptly. (Prohibition of smoking, sparks, and flames in the surrounding area). Remove thoroughly since the smooth and slippery surface will be formed on the floor. Prevent flowing into drain, sewage, basement, and closed area.
Prevention Measures for Secondary Accidents		

Section 7 – HANDLING AND STORAGE

Handling	Technical Measures	Provide ventilation system and use necessary personal protective equipment as described in "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION".
	Precautions for Safe Handling	Obtain special instructions before use.  Do not handle until all safety precautions have been read and understood. Do not eat, drink or smoke when using this product. Wash hand thoroughly after handling. Do not breathe mist, vapours and spray. Ventilate the exhaust to keep the concentration in the air below the exposure limit. Do not contact, breathe or swallow.
	Prevents Handling of Incompatible Substances or Mixtures	Refer to "Section 10 – STABILITY AND REACTIVITY".
	Specific Hygiene Measures	Wash hand thoroughly after handling.
Storage Precautionary Statements	Technical Measures	The storage facility should be provided with necessary lighting, lighting equipment, and ventilator to store and handle dangerous goods. Refer to "Section 10 – STABILITY AND REACTIVITY". Store locked up.

Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls		Good general ventilation should be sufficient to control airborne levels. Facilities storing or utilizing this product should be equipped with an eyewash facility and safety shower.
Personal Protective Equipment	Respiratory Protection	Use personal respiratory equipment as required.

		Wear an adequate protective apparatus for respiratory organs.
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	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 or 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
<b>Section 12 – ECOLOGICAL INFORMATION</b>		
Hazard to the aquatic environment (acute)		No data available
Hazard to the aquatic environment (long-term hazard)		No data available
Hazard to the ozone layer		No data available
<b>Section 13 – DISPOSAL CONSIDERATIONS</b>		
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. In case of disposal of empty containers, remove the content thoroughly.
<b>Section 14 – TRANSPORT INFORMATION</b>		
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
<b>Section 15 – REGULATORY INFORMATION</b>		
Regulatory information with regard to this product in your country or in your region should be examined by your own responsibility.		
<b>Section 16 – OTHER INFORMATION</b>		
Information Contact		No information available

Other Property

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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 2016/01/12

## 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 048-928-6668  
 Fax Number 048-928-9190  
 Mail Address hinpo@pentel.co.jp  
 Emergency Phone Number 048-928-6668  
 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 Reproductive toxicity Category 2  
 Specific target organ toxicity (single exposure) Category 2(respiratory apparatus,heart,kidney,central nervous system)  
 Specific target organ toxicity (repeated exposure) Category 1(liver,kidney)  
 Specific target organ toxicity (repeated exposure) Category 2(respiratory apparatus,heart,central nervous system)  
 Other hazards than mentioned above are Not applicable or No data available.

## GHS Label Elements

## Symbols



Signal Word Danger  
 Hazard Statements H361 Suspected of damaging fertility or the unborn child  
 H371 May cause damage to respiratory apparatus,heart,kidney,central nervous system  
 H373 May cause damage to respiratory apparatus,heart,central nervous system through prolonged or repeated exposure  
 Precautionary Statements Prevention Obtain special instructions before use.(P201)  
 Precautionary Statements 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)



<p>Personal Precautions, Protective Equipment and Emergency Procedures</p>	<p>Wear appropriate personal protective equipment (Refer to "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION") and avoid inhalation or contact with eyes and skin.</p>
<p>Environmental Precautions</p>	<p>This product is water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.</p>
<p>Methods and Equipment for Containment and Cleaning up</p>	<p>After removal, flush contaminated area thoroughly with water.</p> <p>Vacuum or sweep up material and place in a disposal container.</p> <p>Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container.</p>
<p>Prevention Measures for Secondary Accidents</p>	<p>Removes all ignition sources promptly. (Prohibition of smoking, sparks, and flames in the surrounding area).</p> <p>Remove thoroughly since the smooth and slippery surface will be formed on the floor.</p>

**Section 7 – HANDLING AND STORAGE**

<p>Handling</p>	<p>Technical Measures</p>	<p>Provide ventilation system and use necessary personal protective equipment as described in "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION".</p>
	<p>Precautions for Safe Handling</p>	<p>Obtain special instructions before use.</p> <p>Do not handle until all safety precautions have been read and understood.</p> <p>Do not eat, drink or smoke when using this product.</p> <p>Wash hand thoroughly after handling.</p> <p>Do not breathe mist, vapours and spray.</p> <p>Ventilate the exhaust to keep the concentration in the air below the exposure limit.</p> <p>Do not contact, breathe or swallow.</p>
	<p>Prevents Handling of Incompatible Substances or Mixtures</p>	<p>Refer to "Section 10 – STABILITY AND REACTIVITY".</p>
	<p>Specific Hygiene Measures</p>	<p>Wash hand thoroughly after handling.</p>
<p>Storage Precautionary Statements</p>	<p>Technical Measures</p>	<p>The storage facility should be provided with necessary lighting, lighting equipment, and ventilator to store and handle dangerous goods. Refer to "Section 10 – STABILITY AND REACTIVITY".</p> <p>Store locked up.</p>

**Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION**

<p>Engineering Controls</p>		<p>Good general ventilation should be sufficient to control airborne levels.</p> <p>Facilities storing or utilizing this product should be equipped with an eyewash facility and safety shower.</p>
<p>Personal Protective Equipment</p>	<p>Respiratory Protection</p>	<p>Use personal respiratory equipment as required.</p> <p>Wear an adequate protective apparatus for respiratory organs.</p>

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 Temperature		No data available
Decomposition		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 or 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
<b>Section 12 – ECOLOGICAL INFORMATION</b>		
Hazard to the aquatic environment (acute)		No data available
Hazard to the aquatic environment (long-term hazard)		No data available
Hazard to the ozone layer		No data available
<b>Section 13 – DISPOSAL CONSIDERATIONS</b>		
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. Do not release waste liquid containing the product and used water for cleansing into rivers, etc., or do not discharge the concerned wastes intact for reclamation.
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. In case of disposal of empty containers, remove the content thoroughly.
<b>Section 14 – TRANSPORT INFORMATION</b>		
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
<b>Section 15 – REGULATORY INFORMATION</b>		
Regulatory information with regard to this product in your country or in your region should be examined by your own responsibility.		
<b>Section 16 – OTHER INFORMATION</b>		

Information Contact  
Other Property

No information available

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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 2016/01/12

## 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 048-928-6668  
 Fax Number 048-928-9190  
 Mail Address hinpo@pentel.co.jp  
 Emergency Phone Number 048-928-6668  
 Recommended Use and Restriction on Use ink

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

## Section 2 – HAZARDS IDENTIFICATION

## GHS Classification

Health Hazards Serious eye damage/eye irritation Category 2B  
 Sensitization – skin Category 1  
 Reproductive toxicity Category 2  
 Specific target organ toxicity (single exposure)  
 Category 1(respiratory apparatus,heart,kidney,central nervous system)  
 Specific target organ toxicity (repeated exposure)  
 Category 1(respiratory apparatus,heart,central nervous system)  
 Specific target organ toxicity (repeated exposure)  
 Category 2(liver,kidney)  
 Other hazards than mentioned above are Not applicable or No data available.

## GHS Label Elements

## Symbols



Signal Word Danger  
 Hazard Statements H317 May cause an allergic skin reaction  
 H320 Causes eye irritation  
 H361 Suspected of damaging fertility or the unborn child  
 H370 Causes damage to respiratory apparatus,heart,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)



Skin Contact	<p>Wash with plenty of soap and water.                  Wash contaminated clothing before reuse.                  Wash with soap and water.                  If skin irritation or rash occurs, get medical advice and attention.                  Immediately rinse skin with water.                  Get medical advice and attention if you feel unwell.</p>
Eye Contact	<p>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.</p>
Ingestion	<p>Rinse mouth.                  Get medical advice and attention if you feel unwell.</p>

**Section 5 – FIRE FIGHTING MEASURES**

Protection of Fire Figther	In fire fighting, wear respiratory protection and chemical protective clothing.
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**Section 6 – ACCIDENTAL RELEASE MEASURES**

Personal Precautions, Protective Equipment and Emergency Procedures	<p>Wear appropriate personal protective equipment (Refer to “Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION”) and avoid inhalation or contact with eyes and skin.</p>
Environmental Precautions	<p>This product is water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.                  After removal, flush contaminated area thoroughly with water.</p>
Methods and Equipment for Containment and Cleaning up	<p>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.                  Removes all ignition sources promptly. (Prohibition of smoking, sparks, and flames in the surrounding area).                  Remove thoroughly since the smooth and slippery surface will be formed on the floor.</p>
Prevention Measures for Secondary Accidents	

**Section 7 – HANDLING AND STORAGE**

Handling	<p><b>Technical Measures</b> Provide ventilation system and use necessary personal protective equipment as described in “Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION”.</p> <p><b>Precautions for Safe Handling</b> Obtain special instructions before use.                   Do not handle until all safety precautions have been read and understood.                  Do not eat, drink or smoke when using this product.                  Wash hand thoroughly after handling.                  Do not breathe mist, vapours and spray.                  Ventilate the exhaust to keep the concentration in the air below the exposure limit.                  Contaminated work clothing should not be allowed out of the workplace.</p>
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	Prevents Handling of Incompatible Substances or Mixtures	Do not contact, breathe or swallow. Refer to "Section 10 – STABILITY AND REACTIVITY".
	Specific Hygiene Measures	Wash hand thoroughly after handling.
Storage Precautionary Statements	Technical Measures	Contaminated work clothing should not be allowed out of the workplace. The storage facility should be provided with necessary lighting, lighting equipment, and ventilator to store and handle dangerous goods. Refer to "Section 10 – STABILITY AND REACTIVITY". Store locked up.

## Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls		Good general ventilation should be sufficient to control airborne levels. Facilities storing or utilizing this product should be equipped with an eyewash facility and safety shower.
Personal Protective Equipment	Respiratory Protection	Use personal respiratory equipment as required.
	Hand Protection	Wear an adequate protective apparatus for respiratory organs.
	Eye Protection	Wear protective gloves. Wear eye protection. Protection glasses (ordinary glasses, ordinary glasses with side shields, and goggles).
	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
<b>Section 10 – STABILITY AND REACTIVITY</b>	
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
<b>Section 11 – TOXICOLOGICAL INFORMATION</b>	
Acute Toxicity	No information available
Skin Corrosion/Irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory or 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
<b>Section 12 – ECOLOGICAL INFORMATION</b>	
Hazard to the aquatic environment (acute)	No data available
Hazard to the aquatic environment (long-term hazard)	No data available
Hazard to the ozone layer	No data available
<b>Section 13 – DISPOSAL CONSIDERATIONS</b>	
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. Do not release waste liquid containing the product and used water for cleansing into rivers, etc., or do not discharge the concerned wastes intact for reclamation.
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. In case of disposal of empty containers, remove the content thoroughly.
<b>Section 14 – TRANSPORT INFORMATION</b>	
International Regulations	Regulatory Information by Sea
	Marine Pollutant
	Not applicable
	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 2016/01/12

## 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 048-928-6668  
 Fax Number 048-928-9190  
 Mail Address hinpo@pentel.co.jp  
 Emergency Phone Number 048-928-6668  
 Recommended Use and Restriction on Use ink

BGR2, BGR3, BGR4, BGR5, BG202, BG203,  
 BG204, BG205, BG207-F1

## Section 2 – HAZARDS IDENTIFICATION

## GHS Classification

Health Hazards Reproductive toxicity Category 2  
 Specific target organ toxicity (single exposure)  
 Category 2(respiratory apparatus,heart,kidney,central nervous system)  
 Specific target organ toxicity (repeated exposure)  
 Category 1(liver,kidney)  
 Specific target organ toxicity (repeated exposure)  
 Category 2(respiratory apparatus,heart,central nervous system)  
 Other hazards than mentioned above are Not applicable or No data available.

## GHS Label Elements

## Symbols



Signal Word Danger  
 Hazard Statements H361 Suspected of damaging fertility or the unborn child  
 H371 May cause damage to respiratory apparatus,heart,kidney,central nervous system  
 H373 May cause damage to respiratory apparatus,heart,central nervous system through prolonged or repeated exposure  
 Precautionary Statements Prevention Obtain special instructions before use.(P201)  
 Precautionary Statements 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)



<p>Personal Precautions, Protective Equipment and Emergency Procedures</p>	<p>Wear appropriate personal protective equipment (Refer to "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION") and avoid inhalation or contact with eyes and skin.</p>
<p>Environmental Precautions</p>	<p>This product is water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.</p>
<p>Methods and Equipment for Containment and Cleaning up</p>	<p>After removal, flush contaminated area thoroughly with water.</p> <p>Vacuum or sweep up material and place in a disposal container.</p>
<p>Prevention Measures for Secondary Accidents</p>	<p>Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container.</p> <p>Removes all ignition sources promptly. (Prohibition of smoking, sparks, and flames in the surrounding area).</p> <p>Remove thoroughly since the smooth and slippery surface will be formed on the floor.</p>

**Section 7 – HANDLING AND STORAGE**

<p>Handling</p>	<p><b>Technical Measures</b></p> <p>Provide ventilation system and use necessary personal protective equipment as described in "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION".</p>
<p>Precautions for Safe Handling</p>	<p>Obtain special instructions before use.</p> <p>Do not handle until all safety precautions have been read and understood.</p> <p>Do not eat, drink or smoke when using this product.</p> <p>Wash hand thoroughly after handling.</p> <p>Do not breathe mist, vapours and spray.</p> <p>Ventilate the exhaust to keep the concentration in the air below the exposure limit.</p> <p>Do not contact, breathe or swallow.</p>
<p>Storage Precautionary Statements</p>	<p><b>Prevents Handling of Incompatible Substances or Mixtures</b></p> <p>Refer to "Section 10 – STABILITY AND REACTIVITY".</p> <p><b>Specific Hygiene Measures</b></p> <p>Wash hand thoroughly after handling.</p> <p><b>Technical Measures</b></p> <p>The storage facility should be provided with necessary lighting, lighting equipment, and ventilator to store and handle dangerous goods. Refer to "Section 10 – STABILITY AND REACTIVITY".</p> <p>Store locked up.</p>

**Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION**

<p>Engineering Controls</p>	<p>Good general ventilation should be sufficient to control airborne levels.</p> <p>Facilities storing or utilizing this product should be equipped with an eyewash facility and safety shower.</p>
<p>Personal Protective Equipment</p>	<p><b>Respiratory Protection</b></p> <p>Use personal respiratory equipment as required.</p> <p>Wear an adequate protective apparatus for respiratory organs.</p>

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 Temperature		No data available
Decomposition		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 or 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
<b>Section 12 – ECOLOGICAL INFORMATION</b>		
Hazard to the aquatic environment (acute)		No data available
Hazard to the aquatic environment (long-term hazard)		No data available
Hazard to the ozone layer		No data available
<b>Section 13 – DISPOSAL CONSIDERATIONS</b>		
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. Do not release waste liquid containing the product and used water for cleansing into rivers, etc., or do not discharge the concerned wastes intact for reclamation.
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. In case of disposal of empty containers, remove the content thoroughly.
<b>Section 14 – TRANSPORT INFORMATION</b>		
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
<b>Section 15 – REGULATORY INFORMATION</b>		
Regulatory information with regard to this product in your country or in your region should be examined by your own responsibility.		
<b>Section 16 – OTHER INFORMATION</b>		

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 2016/01/12

## 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 048-928-6668  
 Fax Number 048-928-9190  
 Mail Address hinpo@pentel.co.jp  
 Emergency Phone Number 048-928-6668  
 Recommended Use ink  
 and Restriction on Use

BGR2, BGR3, BGR4, BGR5, BG202, BG203,  
 BG204, BG205, BG207-P1

## Section 2 – HAZARDS IDENTIFICATION

## GHS Classification

Health Hazards Reproductive toxicity Category 2  
 Specific target organ toxicity (single exposure)  
 Category 2(respiratory  
 apparatus,heart,kidney,central nervous system)  
 Specific target organ toxicity (repeated exposure)  
 Category 1(liver,kidney)  
 Specific target organ toxicity (repeated exposure)  
 Category 2(respiratory apparatus,heart,central  
 nervous system)  
 Other hazards than mentioned above are Not  
 applicable or No data available.

## GHS Label Elements

## Symbols



Signal Word Danger  
 Hazard Statements H361 Suspected of damaging fertility or the  
 unborn child  
 H371 May cause damage to respiratory  
 apparatus,heart,kidney,central nervous system  
 H373 May cause damage to respiratory  
 apparatus,heart,central nervous system through  
 prolonged or repeated exposure  
 Precautionary  
 Statements  
 Prevention Obtain special instructions before use.(P201)  
 Precautionary  
 Statements  
 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)





<p>Personal Precautions, Protective Equipment and Emergency Procedures</p>	<p>Wear appropriate personal protective equipment (Refer to "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION") and avoid inhalation or contact with eyes and skin.</p>
<p>Environmental Precautions</p>	<p>This product is water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.</p>
<p>Methods and Equipment for Containment and Cleaning up</p>	<p>After removal, flush contaminated area thoroughly with water.</p> <p>Vacuum or sweep up material and place in a disposal container.</p> <p>Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container.</p>
<p>Prevention Measures for Secondary Accidents</p>	<p>Removes all ignition sources promptly. (Prohibition of smoking, sparks, and flames in the surrounding area).</p> <p>Remove thoroughly since the smooth and slippery surface will be formed on the floor.</p>

**Section 7 – HANDLING AND STORAGE**

<p>Handling</p>	<p>Technical Measures</p>	<p>Provide ventilation system and use necessary personal protective equipment as described in "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION".</p>
	<p>Precautions for Safe Handling</p>	<p>Obtain special instructions before use.</p> <p>Do not handle until all safety precautions have been read and understood.</p> <p>Do not eat, drink or smoke when using this product.</p> <p>Wash hand thoroughly after handling.</p> <p>Do not breathe mist, vapours and spray.</p> <p>Ventilate the exhaust to keep the concentration in the air below the exposure limit.</p> <p>Do not contact, breathe or swallow.</p>
	<p>Prevents Handling of Incompatible Substances or Mixtures</p>	<p>Refer to "Section 10 – STABILITY AND REACTIVITY".</p>
	<p>Specific Hygiene Measures</p>	<p>Wash hand thoroughly after handling.</p>
<p>Storage Precautionary Statements</p>	<p>Technical Measures</p>	<p>The storage facility should be provided with necessary lighting, lighting equipment, and ventilator to store and handle dangerous goods. Refer to "Section 10 – STABILITY AND REACTIVITY".</p> <p>Store locked up.</p>

**Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION**

<p>Engineering Controls</p>		<p>Good general ventilation should be sufficient to control airborne levels.</p> <p>Facilities storing or utilizing this product should be equipped with an eyewash facility and safety shower.</p>
<p>Personal Protective Equipment</p>	<p>Respiratory Protection</p>	<p>Use personal respiratory equipment as required.</p> <p>Wear an adequate protective apparatus for respiratory organs.</p>

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	pink
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 Temperature		No data available
Decomposition		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 or 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
<b>Section 12 – ECOLOGICAL INFORMATION</b>		
Hazard to the aquatic environment (acute)		No data available
Hazard to the aquatic environment (long-term hazard)		No data available
Hazard to the ozone layer		No data available
<b>Section 13 – DISPOSAL CONSIDERATIONS</b>		
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. Do not release waste liquid containing the product and used water for cleansing into rivers, etc., or do not discharge the concerned wastes intact for reclamation.
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. In case of disposal of empty containers, remove the content thoroughly.
<b>Section 14 – TRANSPORT INFORMATION</b>		
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
<b>Section 15 – REGULATORY INFORMATION</b>		
Regulatory information with regard to this product in your country or in your region should be examined by your own responsibility.		
<b>Section 16 – OTHER INFORMATION</b>		

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 2016/01/08

Revision Date 2016/01/12

## 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 048-928-6668  
 Fax Number 048-928-9190  
 Mail Address hinpo@pentel.co.jp  
 Emergency Phone Number 048-928-6668  
 Recommended Use and Restriction on Use ink

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

## Section 2 – HAZARDS IDENTIFICATION

## GHS Classification

Health Hazards Serious eye damage/eye irritation Category 2B  
 Sensitization – skin Category 1  
 Reproductive toxicity Category 2  
 Specific target organ toxicity (single exposure) Category 1(respiratory apparatus,heart,kidney,central nervous system)  
 Specific target organ toxicity (repeated exposure) Category 1(respiratory apparatus,heart,central nervous system)  
 Specific target organ toxicity (repeated exposure) Category 2(liver,kidney)  
 Other hazards than mentioned above are Not applicable or No data available.

## GHS Label Elements

## Symbols



## Signal Word

Danger

## Hazard Statements

H317 May cause an allergic skin reaction  
 H320 Causes eye irritation  
 H361 Suspected of damaging fertility or the unborn child  
 H370 Causes damage to respiratory apparatus,heart,kidney,central nervous system  
 H372 Causes damage to respiratory apparatus,heart,central nervous system through prolonged or repeated exposure  
 H373 May cause damage to liver,kidney through prolonged or repeated exposure

## Precautionary Statements



		<p>IF exposed or concerned: Get medical advice and attention. Get medical advice and attention if you feel unwell.</p>
Skin Contact		<p>Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs, get medical advice and attention. Immediately rinse skin with water. Get medical advice and attention if you feel unwell.</p>
Eye Contact		<p>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. Call a doctor if you feel unwell.</p>
Ingestion		<p>Rinse mouth. Get medical advice and attention if you feel unwell.</p>
<b>Section 5 – FIRE FIGHTING MEASURES</b>		
Protection of Fire Fighter		<p>In fire fighting, wear respiratory protection and chemical protective clothing.</p>
<b>Section 6 – ACCIDENTAL RELEASE MEASURES</b>		
Personal Precautions, Protective Equipment and Emergency Procedures		<p>Keep unauthorized personnel away.</p>
Environmental		<p>Wear appropriate personal protective equipment (Refer to “Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION”) and avoid inhalation or contact with eyes and skin. Do not release into the environment. 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. After removal, flush contaminated area thoroughly with water.</p>
Methods and Equipment for Containment and Cleaning up		<p>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. Removes all ignition sources promptly. (Prohibition of smoking, sparks, and flames in the surrounding area). Remove thoroughly since the smooth and slippery surface will be formed on the floor. Prevent flowing into drain, sewage, basement, and closed area.</p>
Prevention Measures for Secondary Accidents		
<b>Section 7 – HANDLING AND STORAGE</b>		
Handling	Technical Measures	<p>Provide ventilation system and use necessary personal protective equipment as described in “Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION”.</p>

	Precautions for Safe Handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not eat, drink or smoke when using this product. Wash hand thoroughly after handling. Do not breathe mist, vapours and spray. Ventilate the exhaust to keep the concentration in the air below the exposure limit. Contaminated work clothing should not be allowed out of the workplace. Do not contact, breathe or swallow. Avoid release to the environment.
	Prevents Handling of Incompatible Substances or Mixtures	Refer to "Section 10 – STABILITY AND REACTIVITY".
	Specific Hygiene Measures	Wash hand thoroughly after handling.  Contaminated work clothing should not be allowed out of the workplace.
Storage Precautionary Statements	Technical Measures	The storage facility should be provided with necessary lighting, lighting equipment, and ventilator to store and handle dangerous goods. Refer to "Section 10 – STABILITY AND REACTIVITY". Store locked up.

#### Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls		Good general ventilation should be sufficient to control airborne levels. Facilities storing or utilizing this product should be equipped with an eyewash facility and safety shower.
Personal Protective Equipment	Respiratory Protection	Use personal respiratory equipment as required.  Wear an adequate protective apparatus for respiratory organs.
	Hand Protection	Wear protective gloves.
	Eye Protection	Wear eye protection. Protection glasses (ordinary glasses, ordinary glasses with side shields, and goggles).
	Skin and Body Protection	Wear face protection.  Use personal protective clothing and face protection as required.

#### Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Physical State	liquid
	Form	liquid (viscous liquid)
	Colour	Sky Blue
Odour		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
<b>Section 10 – STABILITY AND REACTIVITY</b>		
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
<b>Section 11 – TOXICOLOGICAL INFORMATION</b>		
Acute Toxicity		No information available
Skin Corrosion/Irritation		No data available
Serious eye damage/eye irritation		No data available
Respiratory or 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
<b>Section 12 – ECOLOGICAL INFORMATION</b>		
Hazard to the aquatic environment (acute)		No data available
Hazard to the aquatic environment (long-term hazard)		No data available
Hazard to the ozone layer		No data available
<b>Section 13 – DISPOSAL CONSIDERATIONS</b>		
Residual Waste		Disposal should be in accordance with applicable regulations and standards by the respective local governments.

Contaminated Container and Packaging	Commission a waste disposal company, or a local public body who are licensed by local or regional government, to dispose of the material. Recycle containers after cleansing, or carry out the disposal under the related laws and regulations and the standards of the local governments. In case of disposal of empty containers, remove the content thoroughly.
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## Section 14 – TRANSPORT INFORMATION

International Regulations	Regulatory Information by Sea Marine Pollutant Transport in bulk according to MARPOL 73/78, Annex II, and the IBC code	Not applicable
Regulations in Japan	Regulatory Information by Air Regulatory Information by Road or Rail Regulatory Information by Sea Marine Pollutant Transport in bulk according to MARPOL 73/78, Annex II, and the IBC code Regulatory Information by Air	Not applicable Not applicable Not applicable Not applicable 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.
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## Safety Data Sheet (SDS)

Preparation Date 2014/10/29

Revision Date 2016/01/12

## 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 048-928-6668  
 Fax Number 048-928-9190  
 Mail Address hinpo@pentel.co.jp  
 Emergency Phone Number 048-928-6668  
 Recommended Use and Restriction on Use ink

BGR2-S2, BGR3-S2, BGR4-S2, BGR5-S2,  
 BG202-S2, BG203-S2, BG204-S2, BG205-S2

## Section 2 – HAZARDS IDENTIFICATION

## GHS Classification

Health Hazards Serious eye damage/eye irritation Category 2B  
 Sensitization – skin Category 1  
 Reproductive toxicity Category 2  
 Specific target organ toxicity (single exposure)  
 Category 1(respiratory apparatus,heart,kidney,central nervous system)  
 Specific target organ toxicity (repeated exposure)  
 Category 1(respiratory apparatus,heart,central nervous system)  
 Specific target organ toxicity (repeated exposure)  
 Category 2(liver,kidney)  
 Other hazards than mentioned above are Not applicable or No data available.

## GHS Label Elements

## Symbols



Signal Word Danger  
 Hazard Statements H317 May cause an allergic skin reaction  
 H320 Causes eye irritation  
 H361 Suspected of damaging fertility or the unborn child  
 H370 Causes damage to respiratory apparatus,heart,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)



		Get medical advice and attention if you feel unwell.
Skin Contact		Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs, get medical advice and attention. Immediately rinse skin with water. Get medical advice and attention if you feel unwell.
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. Get medical advice and attention if you feel unwell.
<b>Section 5 – FIRE FIGHTING MEASURES</b>		
Protection of Fire Fighter		In fire fighting, wear respiratory protection and chemical protective clothing.
<b>Section 6 – ACCIDENTAL RELEASE MEASURES</b>		
Personal Precautions, Protective Equipment and Emergency Procedures		Wear appropriate personal protective equipment (Refer to "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION") and avoid inhalation or contact with eyes and skin.
Environmental Precautions		This product is water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water. After removal, flush contaminated area thoroughly with 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. Removes all ignition sources promptly. (Prohibition of smoking, sparks, and flames in the surrounding area). Remove thoroughly since the smooth and slippery surface will be formed on the floor.
Prevention Measures for Secondary Accidents		
<b>Section 7 – HANDLING AND STORAGE</b>		
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	Obtain special instructions before use.  Do not handle until all safety precautions have been read and understood. Do not eat, drink or smoke when using this product. Wash hand thoroughly after handling. Do not breathe mist, vapours and spray. Ventilate the exhaust to keep the concentration in the air below the exposure limit.

		Contaminated work clothing should not be allowed out of the workplace. Do not contact, breathe or swallow.
	Prevents Handling of Incompatible Substances or Mixtures	Refer to "Section 10 – STABILITY AND REACTIVITY".
	Specific Hygiene Measures	Wash hand thoroughly after handling.
Storage Precautionary Statements	Technical Measures	Contaminated work clothing should not be allowed out of the workplace. The storage facility should be provided with necessary lighting, lighting equipment, and ventilator to store and handle dangerous goods. Refer to "Section 10 – STABILITY AND REACTIVITY". Store locked up.

### Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls		Good general ventilation should be sufficient to control airborne levels. Facilities storing or utilizing this product should be equipped with an eyewash facility and safety shower.
Personal Protective Equipment	Respiratory Protection	Use personal respiratory equipment as required.
	Hand Protection	Wear an adequate protective apparatus for respiratory organs. Wear protective gloves.
	Eye Protection	Wear eye protection. Protection glasses (ordinary glasses, ordinary glasses with side shields, and goggles).
	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	skyblue
Odour		slight odor
Odour threshold		No data available
pH		No data available
Melting Point/Freezing Point		No data available
Initial Boiling Point and Boiling Ranges		No data available
Flash Point		no data available
Evaporation Rate		No data available
Flammability (solid, gas)		No data available
Flammability or Explosive Limits	Lower Limit	No data available
	Upper Limit	No data available
Vapour Pressure		No data available
Vapour Density		No data available
Specific Gravity (Density)		No data available
Partition Coefficient : n-Octanol/Water		No data available
Auto-Ignition		No data available

Decomposition	No data available
Temperature	
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 or 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

Hazard to the aquatic environment (acute)	No data available
Hazard to the aquatic environment (long-term hazard)	No data available
Hazard 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. Do not release waste liquid containing the product and used water for cleansing into rivers, etc., or do not discharge the concerned wastes intact for reclamation.
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. In case of disposal of empty containers, remove the content thoroughly.

## 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
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	Not applicable
	Transport in bulk according to MARPOL 73/78, Annex II, and the IBC code	Not applicable
Emergency Response	Regulatory Information by Air	Not applicable
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 2016/01/12

## 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 048-928-6668  
 Fax Number 048-928-9190  
 Mail Address hinpo@pentel.co.jp  
 Emergency Phone Number 048-928-6668  
 Recommended Use and Restriction on Use ink

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

## Section 2 – HAZARDS IDENTIFICATION

## GHS Classification

Health Hazards Serious eye damage/eye irritation Category 2B  
 Sensitization – skin Category 1  
 Reproductive toxicity Category 2  
 Specific target organ toxicity (single exposure)  
 Category 1(respiratory apparatus,heart,kidney,central nervous system)  
 Specific target organ toxicity (repeated exposure)  
 Category 1(respiratory apparatus,heart,central nervous system)  
 Specific target organ toxicity (repeated exposure)  
 Category 2(liver,kidney)  
 Other hazards than mentioned above are Not applicable or No data available.

## GHS Label Elements

## Symbols



Signal Word Danger  
 Hazard Statements H317 May cause an allergic skin reaction  
 H320 Causes eye irritation  
 H361 Suspected of damaging fertility or the unborn child  
 H370 Causes damage to respiratory apparatus,heart,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)



Skin Contact	<p>Wash with plenty of soap and water.                  Wash contaminated clothing before reuse.                  If skin irritation or rash occurs, get medical advice and attention.                  Immediately rinse skin with water.                  Get medical advice and attention if you feel unwell.</p>
Eye Contact	<p>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.</p>
Ingestion	<p>Rinse mouth.                  Get medical advice and attention if you feel unwell.</p>

**Section 5 – FIRE FIGHTING MEASURES**

Protection of Fire Figther	<p>In fire fighting, wear respiratory protection and chemical protective clothing.</p>
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**Section 6 – ACCIDENTAL RELEASE MEASURES**

Personal Precautions, Protective Equipment and Emergency Procedures	<p>Wear appropriate personal protective equipment (Refer to "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION") and avoid inhalation or contact with eyes and skin.</p>
Environmental Precautions	<p>This product is water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water. After removal, flush contaminated area thoroughly with water.</p>
Methods and Equipment for Containment and Cleaning up	<p>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.                  Removes all ignition sources promptly. (Prohibition of smoking, sparks, and flames in the surrounding area).                  Remove thoroughly since the smooth and slippery surface will be formed on the floor.</p>
Prevention Measures for Secondary Accidents	

**Section 7 – HANDLING AND STORAGE**

Handling	Technical Measures	<p>Provide ventilation system and use necessary personal protective equipment as described in "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION".</p>
	Precautions for Safe Handling	<p>Obtain special instructions before use.</p> <p>Do not handle until all safety precautions have been read and understood.                  Do not eat, drink or smoke when using this product.                  Wash hand thoroughly after handling.                  Do not breathe mist, vapours and spray.                  Ventilate the exhaust to keep the concentration in the air below the exposure limit.                  Contaminated work clothing should not be allowed out of the workplace.                  Do not contact, breathe or swallow.</p>

	Prevents Handling of Incompatible Substances or Mixtures	Refer to "Section 10 – STABILITY AND REACTIVITY".
	Specific Hygiene Measures	Wash hand thoroughly after handling.
Storage Precautionary Statements	Technical Measures	Contaminated work clothing should not be allowed out of the workplace. The storage facility should be provided with necessary lighting, lighting equipment, and ventilator to store and handle dangerous goods. Refer to "Section 10 – STABILITY AND REACTIVITY". Store locked up.

## Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls		Good general ventilation should be sufficient to control airborne levels. Facilities storing or utilizing this product should be equipped with an eyewash facility and safety shower.
Personal Protective Equipment	Respiratory Protection	Use personal respiratory equipment as required.  Wear an adequate protective apparatus for respiratory organs.
	Hand Protection	Wear protective gloves.
	Eye Protection	Wear eye protection. Protection glasses (ordinary glasses, ordinary glasses with side shields, and goggles).
	Skin and Body Protection	Use personal protective clothing and face protection as required.

## Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Physical State	liquid
	Form	liquid (viscous liquid)
	Colour	purple
Odour		slight odor
Odour threshold		No data available
pH		No data available
Melting Point/Freezing Point		No data available
Initial Boiling Point and Boiling Ranges		No data available
Flash Point		no data available
Evaporation Rate		No data available
Flammability (solid, gas)		No data available
Flammability or Explosive Limits	Lower Limit	No data available
	Upper Limit	No data available
Vapour Pressure		No data available
Vapour Density		No data available
Specific Gravity (Density)		No data available
Partition Coefficient : n-Octanol/Water		No data available
Auto-Ignition		No data available
Decomposition		No data available
Temperature		
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 or 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

Hazard to the aquatic environment (acute)	No data available
Hazard to the aquatic environment (long-term hazard)	No data available
Hazard 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. Do not release waste liquid containing the product and used water for cleansing into rivers, etc., or do not discharge the concerned wastes intact for reclamation.
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. In case of disposal of empty containers, remove the content thoroughly.

## 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 2016/01/08

## Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier	WDR15-CA
Product Code	WDR15CA001
Company Name	PENTEL CO., LTD.
Address	7-2,KOAMICHO,NIHONBASHI,CHUO-KU,TOKYO
Company Contact	QUALITY ASSURANCE DEPARTMENT I
Phone Number	048-928-6668
Fax Number	048-928-9190
Mail Address	hinpo@pentel.co.jp
Emergency Phone Number	048-928-6668
Recommended Use and Restriction on Use	ink  BG202/BG203/BG204/BG205/- CA,BGR2/BGR3/BGR4/BGR5-CA

## Section 2 – HAZARDS IDENTIFICATION

## GHS Classification

Health Hazards	Sensitization – skin Category 1 Reproductive toxicity Category 2 Specific target organ toxicity (single exposure) Category 2(respiratory apparatus,heart,kidney,central nervous system) Specific target organ toxicity (repeated exposure) Category 1(liver,kidney) Specific target organ toxicity (repeated exposure) Category 2(respiratory apparatus,heart,central nervous system) Other hazards than mentioned above are Not applicable or No data available.
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## GHS Label Elements

## Symbols



Signal Word	Danger
Hazard Statements	H317 May cause an allergic skin reaction H361 Suspected of damaging fertility or the unborn child H371 May cause damage to respiratory apparatus,heart,kidney,central nervous system H372 Causes damage to liver,kidney through prolonged or repeated exposure H373 May cause damage to respiratory apparatus,heart,central nervous system through prolonged or repeated exposure
Precautionary Statements	
Prevention	
Precautionary Statements	Obtain special instructions before use.(P201)





If skin irritation or rash occurs, get medical advice and attention.  
 Immediately rinse skin with water.  
 Get medical advice and attention if you feel unwell.

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

Call a doctor if you feel unwell.  
 Rinse mouth.  
 Get medical advice and attention if you feel unwell.

**Section 5 – FIRE FIGHTING MEASURES**

Protection of Fire Figther

In fire fighting, wear respiratory protection and chemical protective clothing.

**Section 6 – ACCIDENTAL RELEASE MEASURES**

Personal Precautions,  
 Protective Equipment and  
 Emergency Procedures

Keep unauthorized personnel away.

Environmental

Wear appropriate personal protective equipment (Refer to "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION") and avoid inhalation or contact with eyes and skin.

Methods and Equipment  
 for Containment and  
 Cleaning up

Do not release into the environment.  
 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.  
 After removal, flush contaminated area thoroughly with water.

Prevention Measures for  
 Secondary Accidents

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.  
 Removes all ignition sources promptly. (Prohibition of smoking, sparks, and flames in the surrounding area).  
 Remove thoroughly since the smooth and slippery surface will be formed on the floor.  
 Prevent flowing into drain, sewage, basement, and closed area.

**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

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.  
 Do not eat, drink or smoke when using this product.

Wash hand thoroughly after handling.  
 Do not breathe mist, vapours and spray.  
 Ventilate the exhaust to keep the concentration in the air below the exposure limit.  
 Contaminated work clothing should not be allowed out of the workplace.  
 Do not contact, breathe or swallow.  
 Avoid release to the environment.

Prevents Handling of Incompatible Substances or Mixtures  
 Specific Hygiene Measures

Refer to "Section 10 – STABILITY AND REACTIVITY".

Wash hand thoroughly after handling.

Storage Precautionary Statements

Technical Measures

Contaminated work clothing should not be allowed out of the workplace.  
 The storage facility should be provided with necessary lighting, lighting equipment, and ventilator to store and handle dangerous goods.  
 Refer to "Section 10 – STABILITY AND REACTIVITY".  
 Store locked up.

**Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION**

Engineering Controls

Good general ventilation should be sufficient to control airborne levels.  
 Facilities storing or utilizing this product should be equipped with an eyewash facility and safety shower.

Personal Protective Equipment

Respiratory Protection

Use personal respiratory equipment as required.

Hand Protection  
 Eye Protection

Wear an adequate protective apparatus for respiratory organs.

Wear protective gloves.

Wear eye protection.

Protection glasses (ordinary glasses, ordinary glasses with side shields, and goggles).

Skin and Body Protection

Wear face 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

Midnight Blue

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 or 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

Hazard to the aquatic environment (acute)	No data available
Hazard to the aquatic environment (long-term hazard)	No data available
Hazard 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. In case of disposal of empty containers, remove the content thoroughly.

**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	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

## Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier	WDR15-F2
Product Code	WDR15F2001
Company Name	PENTEL CO., LTD.
Address	7-2,KOAMICHO,NIHONBASHI,CHUO-KU,TOKYO
Company Contact	QUALITY ASSURANCE DEPARTMENT I
Phone Number	048-928-6668
Fax Number	048-928-9190
Mail Address	hinpo@pentel.co.jp
Emergency Phone Number	048-928-6668
Recommended Use and Restriction on Use	ink  BG202/BG203/BG204/BG205-F2,BGR2/BGR3/BGR4/BGR5-F2

## Section 2 – HAZARDS IDENTIFICATION

## GHS Classification

Health Hazards	Sensitization – skin Category 1 Reproductive toxicity Category 2 Specific target organ toxicity (single exposure) Category 2(respiratory apparatus,heart,kidney,central nervous system) Specific target organ toxicity (repeated exposure) Category 1(liver,kidney) Specific target organ toxicity (repeated exposure) Category 2(respiratory apparatus,heart,central nervous system) Other hazards than mentioned above are Not applicable or No data available.
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## GHS Label Elements

## Symbols



Signal Word	Danger
Hazard Statements	H317 May cause an allergic skin reaction H361 Suspected of damaging fertility or the unborn child H371 May cause damage to respiratory apparatus,heart,kidney,central nervous system H372 Causes damage to liver,kidney through prolonged or repeated exposure H373 May cause damage to respiratory apparatus,heart,central nervous system through prolonged or repeated exposure
Precautionary Statements	
Prevention	
Precautionary Statements	Obtain special instructions before use.(P201)



Skin Contact	<p>Wash with plenty of soap and water.                  Wash contaminated clothing before reuse.                  If skin irritation or rash occurs, get medical advice and attention.                  Immediately rinse skin with water.                  Get medical advice and attention if you feel unwell.</p>
Eye Contact	<p>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.                  Call a doctor if you feel unwell.</p>
Ingestion	<p>Rinse mouth.                  Get medical advice and attention if you feel unwell.</p>

**Section 5 – FIRE FIGHTING MEASURES**

Protection of Fire Figther	In fire fighting, wear respiratory protection and chemical protective clothing.
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**Section 6 – ACCIDENTAL RELEASE MEASURES**

Personal Precautions, Protective Equipment and Emergency Procedures	Keep unauthorized personnel away.
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Environmental	<p>Wear appropriate personal protective equipment (Refer to "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION") and avoid inhalation or contact with eyes and skin.</p>
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Methods and Equipment for Containment and Cleaning up	<p>Do not release into the environment.                  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.                  After removal, flush contaminated area thoroughly with water.</p>
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Prevention Measures for Secondary Accidents	<p>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.                  Removes all ignition sources promptly. (Prohibition of smoking, sparks, and flames in the surrounding area).                  Remove thoroughly since the smooth and slippery surface will be formed on the floor.                  Prevent flowing into drain, sewage, basement, and closed area.</p>
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**Section 7 – HANDLING AND STORAGE**

Handling	Technical Measures	<p>Provide ventilation system and use necessary personal protective equipment as described in "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION".</p>
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Precautions for Safe Handling	<p>Obtain special instructions before use.                  Do not handle until all safety precautions have been read and understood.</p>
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Do not eat, drink or smoke when using this product.  
 Wash hand thoroughly after handling.  
 Do not breathe mist, vapours and spray.  
 Ventilate the exhaust to keep the concentration in the air below the exposure limit.  
 Contaminated work clothing should not be allowed out of the workplace.  
 Do not contact, breathe or swallow.  
 Avoid release to the environment.

Prevents Handling of Incompatible Substances or Mixtures  
 Specific Hygiene Measures

Refer to "Section 10 – STABILITY AND REACTIVITY".

Wash hand thoroughly after handling.

Contaminated work clothing should not be allowed out of the workplace.

Storage Precautionary Statements

Technical Measures

The storage facility should be provided with necessary lighting, lighting equipment, and ventilator to store and handle dangerous goods. Refer to "Section 10 – STABILITY AND REACTIVITY".  
 Store locked up.

**Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION**

Engineering Controls

Good general ventilation should be sufficient to control airborne levels.  
 Facilities storing or utilizing this product should be equipped with an eyewash facility and safety shower.

Personal Protective Equipment

Respiratory Protection

Use personal respiratory equipment as required.

Hand Protection  
 Eye Protection

Wear an adequate protective apparatus for respiratory organs.

Wear protective gloves.

Wear eye protection.

Protection glasses (ordinary glasses, ordinary glasses with side shields, and goggles).

Skin and Body Protection

Wear face 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

Burnt Orange

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 or 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

Hazard to the aquatic environment (acute)		No data available
Hazard to the aquatic environment (long-term hazard)		No data available
Hazard 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.
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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. In case of disposal of empty containers, remove the content thoroughly.

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 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 2016/01/08

## Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier	WDR15-K
Product Code	WDR15K0001
Company Name	PENTEL CO., LTD.
Address	7-2,KOAMICHO,NIHONBASHI,CHUO-KU,TOKYO
Company Contact	QUALITY ASSURANCE DEPARTMENT I
Phone Number	048-928-6668
Fax Number	048-928-9190
Mail Address	hinpo@pentel.co.jp
Emergency Phone Number	048-928-6668
Recommended Use and Restriction on Use	ink  BG202/BG203/BG204/BG205-K,BGR2/BGR3/BGR4/BGR5-K

## Section 2 – HAZARDS IDENTIFICATION

## GHS Classification

Health Hazards	Serious eye damage/eye irritation Category 2B Sensitization – skin Category 1 Reproductive toxicity Category 2 Specific target organ toxicity (single exposure) Category 1(respiratory apparatus,heart,kidney,central nervous system) Specific target organ toxicity (repeated exposure) Category 1(respiratory apparatus,heart,central nervous system) Specific target organ toxicity (repeated exposure) Category 2(liver,kidney) Other hazards than mentioned above are Not applicable or No data available.
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## GHS Label Elements

## Symbols



Signal Word	Danger
Hazard Statements	H317 May cause an allergic skin reaction H320 Causes eye irritation H361 Suspected of damaging fertility or the unborn child H370 Causes damage to respiratory apparatus,heart,kidney,central nervous system H372 Causes damage to respiratory apparatus,heart,central nervous system through prolonged or repeated exposure H373 May cause damage to liver,kidney through prolonged or repeated exposure
Precautionary Statements	

Prevention Precautionary Statements	Obtain special instructions before use.(P201)  Do not handle until all safety precautions have been read and understood.(P202) Do not breathe mist, vapours and spray.(P260) Wash hand thoroughly after handling.(P264) Wash eye thoroughly after handling.(P264) Do not eat, drink or smoke when using this product.(P270) Contaminated work clothing should not be allowed out of the workplace.(P272) 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 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	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.	
Glycerol	8.79%	CH <sub>2</sub> OHCH (OH)C H <sub>2</sub> OH	(2)- 242,(7)- 338	Existing	56-81-5
Ethylene glycol	10.47%	HOCH <sub>2</sub> CH 2OH	(2)-230	Existing	107-21-1
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

Remove person to fresh air and keep comfortable  
for breathing.

IF exposed or concerned: Get medical advice and attention.  
Get medical advice and attention if you feel unwell.

Skin Contact

Wash with plenty of soap and water.  
Wash contaminated clothing before reuse.  
If skin irritation or rash occurs, get medical advice and attention.  
Immediately rinse skin with water.  
Get medical advice and attention if you feel unwell.

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.  
Call a doctor if you feel unwell.

Ingestion

Rinse mouth.  
Get medical advice and attention if you feel unwell.

Section 5 – FIRE FIGHTING MEASURES

Protection of Fire Figther

In fire fighting, wear respiratory protection and chemical protective clothing.

Section 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions,  
Protective Equipment and  
Emergency Procedures

Keep unauthorized personnel away.

Environmental

Wear appropriate personal protective equipment (Refer to "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION") and avoid inhalation or contact with eyes and skin.

Methods and Equipment  
for Containment and  
Cleaning up

Do not release into the environment.  
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.  
After removal, flush contaminated area thoroughly with water.

Prevention Measures for  
Secondary Accidents

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.  
Removes all ignition sources promptly. (Prohibition of smoking, sparks, and flames in the surrounding area).  
Remove thoroughly since the smooth and slippery surface will be formed on the floor.  
Prevent flowing into drain, sewage, basement, and closed area.

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	Obtain special instructions before use.
	Do not handle until all safety precautions have been read and understood.
	Do not eat, drink or smoke when using this product.
	Wash hand thoroughly after handling.
	Do not breathe mist, vapours and spray.
	Ventilate the exhaust to keep the concentration in the air below the exposure limit.
	Contaminated work clothing should not be allowed out of the workplace.
	Do not contact, breathe or swallow.
	Avoid release to the environment.
Prevents Handling of Incompatible Substances or Mixtures	Refer to "Section 10 – STABILITY AND REACTIVITY".
Specific Hygiene Measures	Wash hand thoroughly after handling.
	Contaminated work clothing should not be allowed out of the workplace.
Storage Precautionary Statements	Technical Measures
	The storage facility should be provided with necessary lighting, lighting equipment, and ventilator to store and handle dangerous goods. Refer to "Section 10 – STABILITY AND REACTIVITY".
	Store locked up.

#### Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls		No special ventilation requirements. Facilities storing or utilizing this product should be equipped with an eyewash facility and safety shower.
Personal Protective Equipment	Respiratory Protection	Use personal respiratory equipment as required.
	Hand Protection	Wear an adequate protective apparatus for respiratory organs.
	Eye Protection	Wear protective gloves. Wear eye protection. Protection glasses (ordinary glasses, ordinary glasses with side shields, and goggles).
	Skin and Body Protection	Wear face 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	Lime Green
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 or 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

Hazard to the aquatic environment (acute)		No data available
Hazard to the aquatic environment (long-term hazard)		No data available
Hazard 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.
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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. In case of disposal of empty containers, remove the content thoroughly.

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	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 2014/11/25

Revision Date 2016/11/25

## Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier WDR16-P2  
 Product Code WDR16P2001  
 Company Name PENTEL CO., LTD.  
 Address 7-2,KOAMICHO,NIHONBASHI,CHUO-KU,TOKYO  
 Company Contact QUALITY ASSURANCE DEPARTMENT I  
 Phone Number 048-928-6668  
 Fax Number 048-928-9190  
 Mail Address hinpo@pentel.co.jp  
 Emergency Phone Number 048-928-6668  
 Recommended Use and Restriction on Use ink

XBGRN3/4/5-P2, BG202/203/204/205-P2

## Section 2 – HAZARDS IDENTIFICATION

## GHS Classification

Health Hazards Specific target organ toxicity (single exposure)  
 Category 2(respiratory apparatus,heart,kidney,central nervous system)  
 Specific target organ toxicity (repeated exposure)  
 Category 2(respiratory apparatus,heart,central nervous system)  
 Other hazards than mentioned above are Not applicable or No data available.

## GHS Label Elements

## Symbols



Signal Word Warning  
 Hazard Statements H371 May cause damage to respiratory apparatus,heart,kidney,central nervous system  
 H373 May cause damage to respiratory apparatus,heart,central nervous system through prolonged or repeated exposure

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

Wash hand thoroughly after handling.(P264)  
 Do not eat, drink or smoke when using this product.(P270)

Response  
 Precautionary Statements IF exposed or concerned: Call a POISON CENTER/doctor/...(P308+P311)

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

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.	
Glycerol	11.49%	CH <sub>2</sub> OHCH(OH)C H <sub>2</sub> OH	(2)-242,(7)-338	Existing	56-81-5
Ethylene glycol	5%	HOCH <sub>2</sub> CH <sub>2</sub> OH	(2)-230	Existing	107-21-1
Thiodiglycol	9%	HOCH <sub>2</sub> CH <sub>2</sub> SCH <sub>2</sub> CH <sub>2</sub> OH	(2)-470	Existing	111-48-8
Triethanolamine	0.617%	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  
 Eye Contact

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

Ingestion

Rinse mouth. Do NOT induce vomiting.

### 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	Technical Measures	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	Baby Pink
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 or 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

Hazard to the aquatic environment (acute)	No data available
Hazard to the aquatic environment (long-term hazard)	No data available
Hazard 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 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 2016/01/08

## Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier	WDR15-P3
Product Code	WDR15P3001
Company Name	PENTEL CO., LTD.
Address	7-2,KOAMICHO,NIHONBASHI,CHUO-KU,TOKYO
Company Contact	QUALITY ASSURANCE DEPARTMENT I
Phone Number	048-928-6668
Fax Number	048-928-9190
Mail Address	hinpo@pentel.co.jp
Emergency Phone Number	048-928-6668
Recommended Use and Restriction on Use	ink  BG202/BG203/BG204/BG205-P3,BGR2/BGR3/BGR4/BGR5-P3

## Section 2 – HAZARDS IDENTIFICATION

## GHS Classification

Health Hazards	Sensitization – skin Category 1 Reproductive toxicity Category 2 Specific target organ toxicity (single exposure) Category 2(respiratory apparatus,heart,kidney,central nervous system) Specific target organ toxicity (repeated exposure) Category 1(liver,kidney) Specific target organ toxicity (repeated exposure) Category 2(respiratory apparatus,heart,central nervous system) Other hazards than mentioned above are Not applicable or No data available.
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## GHS Label Elements

## Symbols



Signal Word	Danger
Hazard Statements	H317 May cause an allergic skin reaction H361 Suspected of damaging fertility or the unborn child H371 May cause damage to respiratory apparatus,heart,kidney,central nervous system H372 Causes damage to liver,kidney through prolonged or repeated exposure H373 May cause damage to respiratory apparatus,heart,central nervous system through prolonged or repeated exposure
Precautionary Statements	
Prevention	
Precautionary Statements	Obtain special instructions before use.(P201)



If skin irritation or rash occurs, get medical advice and attention.  
 Immediately rinse skin with water.  
 Get medical advice and attention if you feel unwell.

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

Call a doctor if you feel unwell.  
 Rinse mouth.  
 Get medical advice and attention if you feel unwell.

**Section 5 – FIRE FIGHTING MEASURES**

Protection of Fire Figther

In fire fighting, wear respiratory protection and chemical protective clothing.

**Section 6 – ACCIDENTAL RELEASE MEASURES**

Personal Precautions,  
 Protective Equipment and  
 Emergency Procedures

Keep unauthorized personnel away.

Environmental

Wear appropriate personal protective equipment (Refer to "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION") and avoid inhalation or contact with eyes and skin.

Do not release into the environment.  
 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.  
 After removal, flush contaminated area thoroughly with 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.

Prevention Measures for  
 Secondary Accidents

Removes all ignition sources promptly. (Prohibition of smoking, sparks, and flames in the surrounding area).

Remove thoroughly since the smooth and slippery surface will be formed on the floor.

Prevent flowing into drain, sewage, basement, and closed area.

**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

Obtain special instructions before use.

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

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



		<p>Wash hand thoroughly after handling. Do not breathe mist, vapours and spray. Ventilate the exhaust to keep the concentration in the air below the exposure limit. Contaminated work clothing should not be allowed out of the workplace. Do not contact, breathe or swallow. Avoid release to the environment.</p>
	Prevents Handling of Incompatible Substances or Mixtures	Refer to "Section 10 – STABILITY AND REACTIVITY".
	Specific Hygiene Measures	Wash hand thoroughly after handling.
		Contaminated work clothing should not be allowed out of the workplace.
Storage Precautionary Statements	Technical Measures	The storage facility should be provided with necessary lighting, lighting equipment, and ventilator to store and handle dangerous goods. Refer to "Section 10 – STABILITY AND REACTIVITY". Store locked up.
<b>Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION</b>		
	Engineering Controls	Good general ventilation should be sufficient to control airborne levels. Facilities storing or utilizing this product should be equipped with an eyewash facility and safety shower.
	Personal Protective Equipment	Use personal respiratory equipment as required.
	Respiratory Protection	Wear an adequate protective apparatus for respiratory organs.
	Hand Protection	Wear protective gloves.
	Eye Protection	Wear eye protection. Protection glasses (ordinary glasses, ordinary glasses with side shields, and goggles).
	Skin and Body Protection	Wear face protection.
		Use personal protective clothing and face protection as required.
<b>Section 9 – PHYSICAL AND CHEMICAL PROPERTIES</b>		
Appearance	Physical State	liquid
	Form	liquid (viscous liquid)
	Colour	Coral Pink
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 or 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

Hazard to the aquatic environment (acute)	No data available
Hazard to the aquatic environment (long-term hazard)	No data available
Hazard 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. In case of disposal of empty containers, remove the content thoroughly.

**Section 14 – TRANSPORT INFORMATION**

International Regulations	Regulatory Information by Sea Marine Pollutant Transport in bulk according to MARPOL 73/78, Annex II, and the IBC code	Not applicable
Regulations in Japan	Regulatory Information by Air Regulatory Information by Road or Rail Regulatory Information by Sea Marine Pollutant Transport in bulk according to MARPOL 73/78, Annex II, and the IBC code Regulatory Information by Air	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable 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.
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## Safety Data Sheet (SDS)

Preparation Date 2016/01/08

## Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier	WDR15-F3
Product Code	WDR15F3001
Company Name	PENTEL CO., LTD.
Address	7-2,KOAMICHO,NIHONBASHI,CHUO-KU,TOKYO
Company Contact	QUALITY ASSURANCE DEPARTMENT I
Phone Number	048-928-6668
Fax Number	048-928-9190
Mail Address	hinpo@pentel.co.jp
Emergency Phone Number	048-928-6668
Recommended Use and Restriction on Use	ink  BG202/BG203/BG204/BG205-F3,BGR2/BGR3/BGR4/BGR5-F3

## Section 2 – HAZARDS IDENTIFICATION

## GHS Classification

Health Hazards	Sensitization – skin Category 1 Reproductive toxicity Category 2 Specific target organ toxicity (single exposure) Category 2(respiratory apparatus,heart,kidney,central nervous system) Specific target organ toxicity (repeated exposure) Category 1(liver,kidney) Specific target organ toxicity (repeated exposure) Category 2(respiratory apparatus,heart,central nervous system) Other hazards than mentioned above are Not applicable or No data available.
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## GHS Label Elements

## Symbols



Signal Word	Danger
Hazard Statements	H317 May cause an allergic skin reaction H361 Suspected of damaging fertility or the unborn child H371 May cause damage to respiratory apparatus,heart,kidney,central nervous system H372 Causes damage to liver,kidney through prolonged or repeated exposure H373 May cause damage to respiratory apparatus,heart,central nervous system through prolonged or repeated exposure
Precautionary Statements	
Prevention	
Precautionary Statements	Obtain special instructions before use.(P201)



		Get medical advice and attention if you feel unwell.
Skin Contact		Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs, get medical advice and attention. Immediately rinse skin with water. Get medical advice and attention if you feel unwell.
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. Call a doctor if you feel unwell.
Ingestion		Rinse mouth. Get medical advice and attention if you feel unwell.
<b>Section 5 – FIRE FIGHTING MEASURES</b>		
Protection of Fire Figther		In fire fighting, wear respiratory protection and chemical protective clothing.
<b>Section 6 – ACCIDENTAL RELEASE MEASURES</b>		
Personal Precautions, Protective Equipment and Emergency Procedures		Keep unauthorized personnel away.
Environmental		Wear appropriate personal protective equipment (Refer to “Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION”) and avoid inhalation or contact with eyes and skin. Do not release into the environment. 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. After removal, flush contaminated area thoroughly with 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. Removes all ignition sources promptly. (Prohibition of smoking, sparks, and flames in the surrounding area). Remove thoroughly since the smooth and slippery surface will be formed on the floor. Prevent flowing into drain, sewage, basement, and closed area.
Prevention Measures for Secondary Accidents		
<b>Section 7 – HANDLING AND STORAGE</b>		
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	Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.  
 Do not eat, drink or smoke when using this product.  
 Wash hand thoroughly after handling.  
 Do not breathe mist, vapours and spray.  
 Ventilate the exhaust to keep the concentration in the air below the exposure limit.  
 Contaminated work clothing should not be allowed out of the workplace.  
 Do not contact, breathe or swallow.

Prevents Handling of Incompatible Substances or Mixtures  
 Specific Hygiene Measures

Refer to "Section 10 – STABILITY AND REACTIVITY".

Wash hand thoroughly after handling.

Contaminated work clothing should not be allowed out of the workplace.

Storage Precautionary Statements

Technical Measures

The storage facility should be provided with necessary lighting, lighting equipment, and ventilator to store and handle dangerous goods. Refer to "Section 10 – STABILITY AND REACTIVITY".  
 Store locked up.

**Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION**

Engineering Controls

Good general ventilation should be sufficient to control airborne levels.  
 Facilities storing or utilizing this product should be equipped with an eyewash facility and safety shower.

Personal Protective Equipment

Respiratory Protection

Use personal respiratory equipment as required.

Hand Protection  
 Eye Protection

Wear an adequate protective apparatus for respiratory organs.

Wear protective gloves.

Wear eye protection.

Protection glasses (ordinary glasses, ordinary glasses with side shields, and goggles).

Skin and Body Protection

Wear face protection.

Use personal protective clothing and face protection as required.

**Section 9 – PHYSICAL AND CHEMICAL PROPERTIES**

Appearance

Physical State  
 Form  
 Colour

liquid  
 liquid (viscous liquid)  
 Golden Orange

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 Temperature		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 or 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

Hazard to the aquatic environment (acute)		No data available
Hazard to the aquatic environment (long-term hazard)		No data available
Hazard 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.
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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.  
In case of disposal of empty containers, remove the content thoroughly.

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

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