

## Safety Data Sheet (SDS)

Preparation Date 2011/08/11

Revision Date 2016/01/18

## Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier	WDF1-A
Product Code	WDF1A00001
Company Name	PENTEL CO., LTD.
Address	7-2,KOAMICHO,NIHONBASHI,CHUO-KU,TOKYO
Company Contact	QUALITY ASSURANCE DEPARTMENT I
Phone Number	03-5695-7210
Fax Number	03-5645-8204
Mail Address	hinpo@pentel.co.jp
Emergency Phone Number	03-5695-7210
Recommended Use and Restriction on Use	ink  S520-A,SES15C-A

## Section 2 – HAZARDS IDENTIFICATION

## GHS Classification

Health Hazards	Serious eye damage/eye irritation Category 2B 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) Other hazards than mentioned above are Not applicable or Classification not possible.
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## GHS Label Elements

## Symbols



Signal Word	Danger
Hazard Statements	H320 Causes eye irritation 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
Precautionary Statements	
Prevention	Do not breathe mist, vapours and spray.(P260)
Precautionary Statements	Wash hand thoroughly after handling.(P264) Wash eye thoroughly after handling.(P264) Do not eat, drink or smoke when using this product.(P270)
Response	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.(P305+P351+P338)
Precautionary Statements	

Storage	If eye irritation persists: Get medical advice and attention.(P337+P313)
Precautionary Statements	Store locked up.(P405)
Disposal	Dispose of contents and container in accordance with local, regional and national regulations (to be specified).(P501)
Precautionary Statements	

### 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.	
Ethylene glycol	12.5%	HOCH <sub>2</sub> CH 2OH	(2)-230	Existing	107-21-1
Propylene glycol	2.5%	HOCH <sub>2</sub> CH (OH)C H <sub>3</sub>	(2)-234	2-(8)- 321,2-(8)- 323	57-55-6
2-phenoxyethanol	0.5%		(3)- 558,(7)- 78,(9)- 1277	Existing	122-99-6

Impurities and/or  
Stabilizing Additives which  
Contribute to the

No information available

### Section 4 – FIRST AID MEASURES

Inhalation  
Skin Contact

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

Eye Contact

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

Ingestion

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

### Section 5 – FIRE FIGHTING MEASURES

Extinguishing Media

Dry chemicals, CO<sub>2</sub>, water spray or regular foam.

### Section 6 – ACCIDENTAL RELEASE MEASURES

Environmental  
Precautions

Pay attention not to cause the influence on the  
environment by discharging into rivers.  
This product is water pollutant and should be  
prevented from contaminating soil or from entering  
sewage and drainage systems and bodies of water.  
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	Prevent flowing into drain, sewage, basement, and closed area. Remove thoroughly since the smooth and slippery surface will be formed on the floor.
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## Section 7 – HANDLING AND STORAGE

Handling	Technical Measures	Provide ventilation system and use necessary personal protective equipment as described in "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION".
	Precautions for Safe Handling	Avoid contact with eyes.  Wash hand thoroughly after handling. Avoid swallowing. Protect from high temperature and direct sunlight.
Storage Precautionary Statements	Prevents Handling of Incompatible Substances or Mixtures	Refer to "Section 10 – STABILITY AND REACTIVITY".
	Specific Hygiene Measures	Wash hand thoroughly after handling.
	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". Have containers keep away from direct sunlight and heat. Keep away from heat. Store locked up.
	Material Used in Packaging/Containers	Packaging materials and containers are not legislated, but use sturdy and closed-type containers.

## Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls		Good general ventilation should be sufficient to control airborne levels.
Personal Protective Equipment	Eye Protection	Wear eye protection.  Protection glasses (ordinary glasses, ordinary glasses with side shields, and goggles).

## Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Physical State	liquid
	Form	liquid
	Colour	black
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

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

#### Section 13 – DISPOSAL CONSIDERATIONS

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

#### Section 14 – TRANSPORT INFORMATION

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

**Section 15 – REGULATORY INFORMATION**

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

**Section 16 – OTHER INFORMATION**

Information Contact  
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 2011/08/11

Revision Date 2017/01/13

## Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier	WDF1-B
Product Code	WDF1B00001
Company Name	PENTEL CO., LTD.
Address	7-2,KOAMICHO,NIHONBASHI,CHUO-KU,TOKYO
Company Contact	QUALITY ASSURANCE DEPARTMENT I
Phone Number	03-5695-7210
Fax Number	03-5645-8204
Mail Address	hinpo@pentel.co.jp
Emergency Phone Number	03-5695-7210
Recommended Use and Restriction on Use	ink  S520-B,SES15C-B

## Section 2 – HAZARDS IDENTIFICATION

## GHS Classification

Health Hazards	Serious eye damage/eye irritation Category 2B 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) Other hazards than mentioned above are Not applicable or Classification not possible.
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## GHS Label Elements

## Symbols



Signal Word	Danger
Hazard Statements	H320 Causes eye irritation 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
Precautionary Statements	
Prevention	
Precautionary Statements	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)
Response	
Precautionary Statements	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.(P305+P351+P338)

Storage Precautionary Statements	If eye irritation persists: Get medical advice and attention.(P337+P313) 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.	
Ethylene glycol	25%	HOCH <sub>2</sub> CH 2OH	(2)-230	Existing	107-21-1
2-phenoxyethanol	0.5%		(3)-558 (7)-78 (9)-1277	Existing	122-99-6

Impurities and/or  
Stabilizing Additives which  
Contribute to the

No information available

## Section 4 – FIRST AID MEASURES

Inhalation

If breathing is difficult, move affected person to the open air. Keep him or her at rest to allow easier breathing.  
Get medical advice and attention if you feel unwell.

Skin Contact

Wash with plenty of soap and water.  
If skin irritation or rash occurs, get medical advice and attention.

Eye Contact

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

Ingestion

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

## Section 5 – FIRE FIGHTING MEASURES

Extinguishing Media

Dry chemicals, CO<sub>2</sub>, water spray or regular foam.

## Section 6 – ACCIDENTAL RELEASE MEASURES

Environmental  
Precautions

Pay attention not to cause the influence on the environment by discharging into rivers.  
This product is water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.  
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	Prevent flowing into drain, sewage, basement, and closed area. Remove thoroughly since the smooth and slippery surface will be formed on the floor.
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## 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.  Protect from high temperature and direct sunlight.
Storage Precautionary Statements	Prevents Handling of Incompatible Substances or Mixtures	Refer to "Section 10 – STABILITY AND REACTIVITY".
	Specific Hygiene Measures	Wash hand thoroughly after handling.
	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". Have containers keep away from direct sunlight and heat. Keep away from heat. Store locked up.
	Material Used in Packaging/Containers	Packaging materials and containers are not legislated, but use sturdy and closed-type containers.

## Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls		Good general ventilation should be sufficient to control airborne levels.
Personal Protective Equipment	Eye Protection	Wear eye protection.  Protection glasses (ordinary glasses, ordinary glasses with side shields, and goggles).

## Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Physical State	liquid
	Form	liquid
	Colour	red
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

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

#### Section 13 – DISPOSAL CONSIDERATIONS

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

#### Section 14 – TRANSPORT INFORMATION

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

**Section 15 – REGULATORY INFORMATION**

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

**Section 16 – OTHER INFORMATION**

Information Contact  
Other Property

No information available  
This information is furnished without warranty  
express or implied.  
This information is believed to be accurate to the  
best knowledge of PENTEL Co., Ltd. but not  
assumes leagal responsibility for use of or reliance  
upon this information.

## Safety Data Sheet (SDS)

Preparation Date 2011/08/11

Revision Date 2017/01/13

## Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier	WDF9-C
Product Code	WDF9C00001
Company Name	PENTEL CO., LTD.
Address	7-2,KOAMICHO,NIHONBASHI,CHUO-KU,TOKYO
Company Contact	QUALITY ASSURANCE DEPARTMENT I
Phone Number	03-5695-7210
Fax Number	03-5645-8204
Mail Address	hinpo@pentel.co.jp
Emergency Phone Number	03-5695-7210
Recommended Use and Restriction on Use	ink  S520-C,SES15C-C

## Section 2 – HAZARDS IDENTIFICATION

## GHS Classification

Health Hazards	Serious eye damage/eye irritation Category 2B 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(liver,respiratory apparatus,heart,central nervous system,kidney) Other hazards than mentioned above are Not applicable or Classification not possible.
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## GHS Label Elements

## Symbols



Signal Word	Danger
Hazard Statements	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 liver,respiratory apparatus,heart,kidney,central nervous system through prolonged or repeated exposure
Precautionary Statements Prevention	Wear protective gloves.(P280)
Precautionary Statements	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)

Response Precautionary Statements	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 eye irritation persists: Get medical advice and attention.(P337+P313)
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.	
Ethylene glycol	15%	HOCH <sub>2</sub> CH 2OH	(2)-230	Existing	107-21-1
Diethylene glycol	15%	HOCH <sub>2</sub> CH 2OCH <sub>2</sub> C H <sub>2</sub> OH	(2)-415	Existing	111-46-6
2-phenoxyethanol	0.5%		(3)-558 (7)-78 (9)-1277	Existing	122-99-6

Impurities and/or  
Stabilizing Additives which  
Contribute to the

No information available

## Section 4 – FIRST AID MEASURES

Inhalation

If breathing is difficult, move affected person to the open air. Keep him or her at rest to allow easier breathing.  
Get medical advice and attention if you feel unwell.

Skin Contact

Wash with plenty of soap and water.  
If skin irritation or rash occurs, get medical advice and attention.

Eye Contact

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

Ingestion

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

## Section 5 – FIRE FIGHTING MEASURES

Extinguishing Media

Dry chemicals, CO<sub>2</sub>, water spray or regular foam.

## Section 6 – ACCIDENTAL RELEASE MEASURES

Environmental  
Precautions

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

Methods and Equipment for Containment and Cleaning up

After removal, flush contaminated area thoroughly with water.

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

Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container.

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.

Protect from high temperature and direct sunlight.

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".

Have containers keep away from direct sunlight and heat.

Keep away from heat.

Store locked up.

Material Used in Packaging/Containers

Packaging materials and containers are not legislated, but use sturdy and closed-type containers.

## Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

Good general ventilation should be sufficient to control airborne levels.

Personal Protective Equipment

Eye Protection

Wear eye protection.

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

## Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State

liquid

Form

liquid

Colour

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

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

#### Section 13 – DISPOSAL CONSIDERATIONS

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

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

Section 15 – REGULATORY INFORMATION

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

Section 16 – OTHER INFORMATION

Information Contact  
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 2011/08/11

Revision Date 2017/01/13

## Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier	WDF1-D
Product Code	WDF1D00001
Company Name	PENTEL CO., LTD.
Address	7-2,KOAMICHO,NIHONBASHI,CHUO-KU,TOKYO
Company Contact	QUALITY ASSURANCE DEPARTMENT I
Phone Number	03-5695-7210
Fax Number	03-5645-8204
Mail Address	hinpo@pentel.co.jp
Emergency Phone Number	03-5695-7210
Recommended Use and Restriction on Use	ink  S520-D,SES15C-D

## Section 2 – HAZARDS IDENTIFICATION

## GHS Classification

Health Hazards	Serious eye damage/eye irritation Category 2B 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) Other hazards than mentioned above are Not applicable or Classification not possible.
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## GHS Label Elements

## Symbols



Signal Word	Danger
Hazard Statements	H320 Causes eye irritation 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
Precautionary Statements	
Prevention	
Precautionary Statements	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)
Response	
Precautionary Statements	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.(P305+P351+P338)





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.
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## 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.  Protect from high temperature and direct sunlight.
Storage Precautionary Statements	Prevents Handling of Incompatible Substances or Mixtures	Refer to "Section 10 – STABILITY AND REACTIVITY".
	Specific Hygiene Measures	Wash hand thoroughly after handling.
	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". Have containers keep away from direct sunlight and heat. Keep away from heat. Store locked up.
	Material Used in Packaging/Containers	Packaging materials and containers are not legislated, but use sturdy and closed-type containers.

## Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls		Good general ventilation should be sufficient to control airborne levels.
Personal Protective Equipment	Eye Protection	Wear eye protection.  Protection glasses (ordinary glasses, ordinary glasses with side shields, and goggles).

## Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Physical State	liquid
	Form	liquid
	Colour	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**

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

**Section 13 – DISPOSAL CONSIDERATIONS**

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

**Section 14 – TRANSPORT INFORMATION**

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