

## Safety Data Sheet (SDS)

Preparation Date 2011/11/18

Revision Date 2022/02/08

## Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier WDF9-G  
 Product Code WDF9G00001  
 Name of Supplier PENTEL CO., LTD.  
 Address 7-2,KOAMICHO,NIHONBASHI,CHUO-KU,TOKYO  
 Company Contact QUALITY ASSURANCE DEPARTMENT I  
 Phone Number 03-5695-7210  
 Fax Number 03-5645-8204  
 Mail Address hinpo@pentel.co.jp  
 Emergency Phone Number 03-5695-7210  
 Recommended Use ink

Australian Company Pentel Australia Pty Ltd  
 Address Unit 4, 12 Mars Road, Lane Cove NSW 2066  
 Phone 1300 88 87 86  
 Emergency Phone 02 9425 4800  
 ABN 72 008 457 725

S520-G,SES15C-G,SESF30C-G

## Section 2 – HAZARDS IDENTIFICATION

## GHS Classification of the Chemical

Health Hazards Acute toxicity (Inhalation: dust and mist) Category 4  
 Serious eye damage/eye irritation Category 2A  
 Reproductive toxicity Category 2  
 Specific target organ toxicity (single exposure) Category 1(blood,central nervous system)  
 Specific target organ toxicity (single exposure) Category 2(kidney)  
 Specific target organ toxicity (single exposure) Category 3(narcotic effect)  
 Specific target organ toxicity (repeated exposure) Category 1(respiratory apparatus,central nervous system)  
 Specific target organ toxicity (repeated exposure) Category 2(liver,kidney)  
 Other hazards than mentioned above are Not classified (Not applicable) or Classification not possible.

## GHS Label Elements

## Pictograms



## Signal Word

Danger

## Hazard Statements

H319 Causes serious eye irritation  
 H332 Harmful if inhaled

	H336 May cause drowsiness or dizziness
	H370 Causes damage to blood,central nervous system
	H372 Causes damage to respiratory apparatus,central nervous system through prolonged or repeated exposure
	H361 Suspected of damaging fertility or the unborn child
	H371 May cause damage to kidney
	H373 May cause damage to liver,kidney through prolonged or repeated exposure
<b>Precautionary Statements</b>	
<b>Prevention</b>	Avoid breathing mist/vapours/spray.(P261) Avoid breathing dust.(P261) Use only outdoors or in a well-ventilated area.(P271) Wear protective gloves/protective clothing/eye protection/face protection.(P280) Do not breathe mist/vapours/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)
<b>Response</b>	IF INHALED: Remove person to fresh air and keep comfortable for breathing.(P304+P340) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.(P305+P351+P338) IF exposed or concerned: Call a doctor.(P308+P311) Call a doctor if you feel unwell.(P312) Specific treatment.(P321) If eye irritation persists: Get medical advice/attention.(P337+P313)
<b>Storage</b>	Store in a well-ventilated place. Keep container tightly closed.(P403+P233) Store locked up.(P405)
<b>Disposal</b>	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	9%	HOCH <sub>2</sub> CH <sub>2</sub> OH	(2)-230	Existing	107-21-1
Propylene glycol	10%	HOCH <sub>2</sub> CH(OH)C H <sub>3</sub>	(2)-234	2-(8)-321 2-(8)-323	57-55-6

Diethylene glycol	9%	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

**Section 4 – FIRST AID MEASURES**

<p>Inhalation</p> <p>Skin Contact</p> <p>Eye Contact</p>   <p>Ingestion</p>	<p>Call a doctor if you feel unwell.</p> <p>Wash with soap and water.</p> <p>Rinse cautiously with water for several minutes.</p> <p>Remove contact lenses, if present and easy to do.</p> <p>Continue rinsing.</p> <p>When the ocular stimulation lasts, Seek medical treatment and advice.</p> <p>Rinse mouth. Do NOT induce vomiting.</p> <p>Get medical advice and attention if you feel unwell.</p>
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**Section 5 – FIRE FIGHTING MEASURES**

<p>Suitable Extinguishing Media</p> <p>Unsuitable Extinguishing Media</p>	<p>Small fires: Dry chemical, CO<sub>2</sub>, water spray or regular foam.</p> <p>No information available</p>
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**Section 6 – ACCIDENTAL RELEASE MEASURES**

<p>Personal Precautions, Protective Equipment and Emergency Procedures</p> <p>Environmental Precautions</p>   <p>Methods and Equipment for Containment and Cleaning up</p>   <p>Prevention Measures for Secondary Accidents</p>	<p>No information available</p>   <p>Pay attention not to cause the influence on the environment by discharging into rivers.</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>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>After removal, flush contaminated area thoroughly with water.</p> <p>Prevent flowing into drain, sewage, basement, and closed area.</p> <p>Remove thoroughly since the smooth and slippery surface will be formed on the floor.</p>
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**Section 7 – HANDLING AND STORAGE**

<p>Handling</p>   <p>Precautions for Safe 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>Wash hand thoroughly after handling.</p> <p>Avoid swallowing.</p> <p>Avoid contact with eyes.</p>
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	Prevents Handling of Incompatible Substances or Mixtures	Protect from high temperature and direct sunlight. Refer to "Section 10 – STABILITY AND REACTIVITY".
Storage	Conditions for Safe Storage	Refer to "Section 10 – STABILITY AND REACTIVITY". Have containers keep away from direct sunlight and heat. Keep away from heat.

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

Engineering Controls		Good general ventilation should be sufficient to control airborne levels.
Personal Protective Equipment	Respiratory Protection	Use personal respiratory equipment as required.
	Hand Protection	Use personal gloves as required.
	Eye/Face 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

Physical State	liquid
Form	liquid (viscous liquid)
Colour	yellow
Odour	odorless
Melting Point/Freezing Point	No data available
Boiling Point or Initial Boiling Point and Boiling Ranges	No data available
Flammability	No data available
Lower and Upper Explosion Limit /	No data available
Flash Point	No data available
Auto-Ignition Temperature	No data available
Decomposition Temperature	No data available
pH	No data available
Kinematic Viscosity	No data available
Solubility	No data available
Partition Coefficient : n-Octanol/Water	No data available
Vapour Pressure	No data available
Density and/or Relative Density	No data available
Relative Gas Density	No data available
Particle Characteristics	No data available

#### Section 10 – STABILITY AND REACTIVITY

Reactivity	No data available
Chemical Stability	No data available
Possibility of Hazardous Reaction	No data available
Conditions to Avoid	No data available

Incompatible Substances or Mixtures	No data available
Hazardous Decomposition Products	No data available

## Section 11 – TOXICOLOGICAL INFORMATION

Acute Toxicity	No information available
Skin Corrosion/Irritation	No data available
Serious Eye Damage/Eye Irritation	No data available
Respiratory Sensitization	No data available
Skin Sensitization	No data available
Germ Cell Mutagenicity	No data available
Carcinogenicity	No data available
Reproductive Toxicity	No data available
Specific Target Organ Toxicity (Single Exposure)	No data available
Specific Target Organ Toxicity (Repeated Exposure)	No data available
Aspiration Hazard	No data available

## Section 12 – ECOLOGICAL INFORMATION

Hazardous to the Aquatic Environment, Short-Term (Acute)	No data available
Hazardous to the Aquatic Environment, Long-Term (Chronic)	No data available
Ecotoxicity	No data available
Persistence	No data available
Bioaccumulative Potential	No data available
Mobility in Soil	No data available
Hazardous to the Ozone Layer	No data available

## Section 13 – DISPOSAL CONSIDERATIONS

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

## Section 14 – TRANSPORT INFORMATION

International Regulations	Regulatory Information by Sea	Not applicable
	Marine Pollutant	Not applicable

	Liquid Substance Transported in Bulk According to MARPOL 73/78, Annex II, 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 Liquid Substance Transported in Bulk According to MARPOL 73/78, Annex II, the IBC Code	Not applicable
Emergency Response Guide Number	Regulatory Information by Air	Not applicable
		Not applicable

**Section 15 – REGULATORY INFORMATION**

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

**Section 16 – OTHER INFORMATION**

Information Contact  
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 2011/11/18

Revision Date 2022/02/04

## Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier WDF1-N  
 Product Code WDF1N00001  
 Name of Supplier PENTEL CO., LTD.  
 Address 7-2,KOAMICHO,NIHONBASHI,CHUO-KU,TOKYO  
 Company Contact QUALITY ASSURANCE DEPARTMENT I  
 Phone Number 03-5695-7210  
 Fax Number 03-5645-8204  
 Mail Address hinpo@pentel.co.jp  
 Emergency Phone Number 03-5695-7210  
 Recommended Use ink

Australian Company Pentel Australia Pty Ltd  
 Address Unit 4, 12 Mars Road, Lane Cove NSW 2066  
 Phone 1300 88 87 86  
 Emergency Phone 02 9425 4800  
 ABN 72 008 457 725

S520-N,SES15C-N,SESF30C-N

## Section 2 – HAZARDS IDENTIFICATION

## GHS Classification of the Chemical

Health Hazards Acute toxicity (Inhalation: dust and mist) Category 4  
 Skin corrosion/irritation Category 2  
 Serious eye damage/eye irritation Category 2A  
 Specific target organ toxicity (single exposure) Category 1(blood,kidney,central nervous system)  
 Specific target organ toxicity (single exposure) Category 3(narcotic effect,respiratory tract irritation)  
 Other hazards than mentioned above are Not classified (Not applicable) or Classification not possible.

## GHS Label Elements

## Pictograms



## Signal Word

Danger

## Hazard Statements

H315 Causes skin irritation  
 H319 Causes serious eye irritation  
 H332 Harmful if inhaled  
 H335 May cause respiratory irritation  
 H336 May cause drowsiness or dizziness  
 H370 Causes damage to blood,kidney,central nervous system

Precautionary  
Statements

## Prevention

Do not breathe mist/vapours/spray.(P260)  
 Avoid breathing mist/vapours/spray.(P261)  
 Avoid breathing dust.(P261)  
 Use only outdoors or in a well-ventilated area.(P271)  
 Wear protective gloves.(P280)  
 Wear eye protection/face protection.(P280)  
 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 ON SKIN: Wash with plenty of soap and water.(P302+P352)  
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.(P304+P340)  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.(P305+P351+P338)  
 Call a doctor if you feel unwell.(P312)  
 If skin irritation occurs: Get medical advice/attention.(P332+P313)  
 Take off contaminated clothing and wash it before reuse.(P362+P364)  
 If eye irritation persists: Get medical advice/attention.(P337+P313)

## Storage

Store in a well-ventilated place. Keep container tightly closed.(P403+P233)

## Disposal

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.	
Ethylene glycol	23.7%	HOCH <sub>2</sub> CH <sub>2</sub> OH	(2)-230	Existing	107-21-1

## Section 4 – FIRST AID MEASURES

Inhalation

Call a doctor if you feel unwell.

Skin Contact

Wash with soap and water.

Eye Contact

Rinse cautiously with water for several minutes.  
 Remove contact lenses, if present and easy to do.  
 Continue rinsing.

When the ocular stimulation lasts, Seek medical treatment and advice.

Ingestion

Rinse mouth. Do NOT induce vomiting.

Get medical advice and attention if you feel unwell.

## Section 5 – FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Small fires: Dry chemical, CO2, water spray or regular foam.
Unsuitable Extinguishing Media	No information available

**Section 6 – ACCIDENTAL RELEASE MEASURES**

Personal Precautions, Protective Equipment and Emergency Procedures	No information available
Environmental Precautions	Pay attention not to cause the influence on the environment by discharging into rivers. This product is water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.
Methods and Equipment for Containment and Cleaning up	Vacuum or sweep up material and place in a disposal container.  Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. After removal, flush contaminated area thoroughly with water.
Prevention Measures for Secondary Accidents	Prevent flowing into drain, sewage, basement, and closed area. Remove thoroughly since the smooth and slippery surface will be formed on the floor.

**Section 7 – HANDLING AND STORAGE**

Handling	Technical Measures	Provide ventilation system and use necessary personal protective equipment as described in "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION".
	Precautions for Safe Handling	Wash hand thoroughly after handling.  Avoid swallowing. Avoid contact with eyes. Protect from high temperature and direct sunlight.
Storage	Prevents Handling of Incompatible Substances or Mixtures	Refer to "Section 10 – STABILITY AND REACTIVITY".
	Conditions for Safe Storage	Refer to "Section 10 – STABILITY AND REACTIVITY". Have containers keep away from direct sunlight and heat. Keep away from heat.

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

Engineering Controls		Carry out handling of the material in the workplace equipped with a full ventilation system. Good general ventilation should be sufficient to control airborne levels.
Personal Protective Equipment	Respiratory Protection	If ventilation is insufficient, wear an adequate protective apparatus for respiratory organs.
	Hand Protection	Wear protective gloves.
	Eye/Face Protection	Wear face protection. Wear eye protection.

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

## Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State	liquid
Form	liquid (viscous liquid)
Colour	grey
Odour	odorless
Melting Point/Freezing Point	No data available
Boiling Point or Initial Boiling Point and Boiling Ranges	No data available
Flammability	No data available
Lower and Upper Explosion Limit /	No data available
Flash Point	No data available
Auto-Ignition Temperature	No data available
Decomposition Temperature	No data available
pH	No data available
Kinematic Viscosity	No data available
Solubility	No data available
Partition Coefficient : n-Octanol/Water	No data available
Vapour Pressure	No data available
Density and/or Relative Density	No data available
Relative Gas Density	No data available
Particle Characteristics	No data available

## Section 10 – STABILITY AND REACTIVITY

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

## Section 11 – TOXICOLOGICAL INFORMATION

Acute Toxicity	No information available
Skin Corrosion/Irritation	No data available
Serious Eye Damage/Eye Irritation	No data available
Respiratory Sensitization	No data available
Skin Sensitization	No data available
Germ Cell Mutagenicity	No data available
Carcinogenicity	No data available
Reproductive Toxicity	No data available
Specific Target Organ Toxicity (Single Exposure)	No data available

Specific Target Organ Toxicity (Repeated Exposure)	No data available
Aspiration Hazard	No data available

## Section 12 – ECOLOGICAL INFORMATION

Hazardous to the Aquatic Environment, Short-Term (Acute)	No data available
Hazardous to the Aquatic Environment, Long-Term (Chronic)	No data available
Ecotoxicity	No data available
Persistence	No data available
Bioaccumulative Potential	No data available
Mobility in Soil	No data available
Hazardous to the Ozone Layer	No data available

## Section 13 – DISPOSAL CONSIDERATIONS

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

## Section 14 – TRANSPORT INFORMATION

International Regulations	Regulatory Information by Sea	Not applicable
	Marine Pollutant	Not applicable
	Liquid Substance Transported in Bulk	Not applicable
	According to MARPOL 73/78, Annex II, the IBC Code	
	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
	Liquid Substance Transported in Bulk	Not applicable
	According to MARPOL 73/78, Annex II, 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  
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 PENDEL Co., Ltd. but not  
assumes legal responsibility for use of or reliance  
upon this information.

## Safety Data Sheet (SDS)

Preparation Date 2017/10/20

Revision Date 2022/02/08

## Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier WDF1-S  
 Product Code WDF1S00002  
 Name of Supplier PENTEL CO., LTD.  
 Address 7-2,KOAMICHO,NIHONBASHI,CHUO-KU,TOKYO  
 Company Contact QUALITY ASSURANCE DEPARTMENT I  
 Phone Number 03-5695-7210  
 Fax Number 03-5645-8204  
 Mail Address hinpo@pentel.co.jp  
 Emergency Phone Number 03-5695-7210  
 Recommended Use ink

Australian Company Pentel Australia Pty Ltd  
 Address Unit 4, 12 Mars Road, Lane Cove NSW 2066  
 Phone 1300 88 87 86  
 Emergency Phone 02 9425 4800  
 ABN 72 008 457 725

S520-S,SES15C-S,SESF30C-S

## Section 2 – HAZARDS IDENTIFICATION

## GHS Classification of the Chemical

Health Hazards Acute toxicity (Inhalation: dust and mist) Category 4  
 Skin corrosion/irritation Category 2  
 Serious eye damage/eye irritation Category 2A  
 Specific target organ toxicity (single exposure) Category 1(blood,kidney,central nervous system)  
 Specific target organ toxicity (single exposure) Category 3(narcotic effect,respiratory tract irritation)  
 Other hazards than mentioned above are Not classified (Not applicable) or Classification not possible.

## GHS Label Elements

## Pictograms



## Signal Word

Danger

## Hazard Statements

H315 Causes skin irritation  
 H319 Causes serious eye irritation  
 H332 Harmful if inhaled  
 H335 May cause respiratory irritation  
 H336 May cause drowsiness or dizziness  
 H370 Causes damage to blood,kidney,central nervous system

Precautionary  
Statements

## Prevention

Do not breathe mist/vapours/spray.(P260)  
 Avoid breathing dust.(P261)  
 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)  
 If eye irritation persists: Get medical  
 advice/attention.(P337+P313)

## Storage

Store locked up.(P405)

## Disposal

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	22%	HOCH <sub>2</sub> CH 2OH	(2)-230	Existing	107-21-1

## Section 4 – FIRST AID MEASURES

Inhalation

Get medical advice and attention if you feel unwell.

Skin Contact

Wash with soap and water.

Eye Contact

Rinse cautiously with water for several minutes.  
 Remove contact lenses, if present and easy to do.  
 Continue rinsing.

When the ocular stimulation lasts, Seek medical  
 treatment and advice.

Ingestion

Rinse mouth. Do NOT induce vomiting.

Get medical advice and attention if you feel unwell.

## Section 5 – FIRE FIGHTING MEASURES

Suitable Extinguishing

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

Media

Unsuitable Extinguishing

No information available

Media

## Section 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions,  
 Protective Equipment and  
 Emergency Procedures

No information available

Environmental Precautions

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

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

## Section 7 – HANDLING AND STORAGE

Handling	Technical Measures	Provide ventilation system and use necessary personal protective equipment as described in "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION".
	Precautions for Safe Handling	Wash hand thoroughly after handling.  Avoid swallowing. Avoid contact with eyes. Protect from high temperature and direct sunlight.
	Prevents Handling of Incompatible Substances or Mixtures	Refer to "Section 10 – STABILITY AND REACTIVITY".
Storage	Conditions for Safe Storage	Refer to "Section 10 – STABILITY AND REACTIVITY". Have containers keep away from direct sunlight and heat. Keep away from heat.

## Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls		Good general ventilation should be sufficient to control airborne levels.
Personal Protective Equipment	Respiratory Protection	Use personal respiratory equipment as required.
	Hand Protection	Use personal gloves as required.
	Eye/Face Protection	Use personal face protection as required.
	Skin and Body Protection	Use personal protective clothing and face protection as required.

## Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State	liquid
Form	liquid (viscous liquid)
Colour	Sky blue
Odour	odorless
Melting Point/Freezing Point	No data available
Boiling Point or Initial Boiling Point and Boiling Ranges	No data available
Flammability	No data available
Lower and Upper Explosion Limit /	No data available
Flash Point	No data available

Auto-Ignition Temperature	No data available
Decomposition Temperature	No data available
pH	No data available
Kinematic Viscosity	No data available
Solubility	No data available
Partition Coefficient : n-Octanol/Water	No data available
Vapour Pressure	No data available
Density and/or Relative Density	No data available
Relative Gas Density	No data available
Particle Characteristics	No data available

#### Section 10 – STABILITY AND REACTIVITY

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

#### Section 11 – TOXICOLOGICAL INFORMATION

Acute Toxicity	No information available
Skin Corrosion/Irritation	No data available
Serious Eye Damage/Eye Irritation	No data available
Respiratory Sensitization	No data available
Skin Sensitization	No data available
Germ Cell Mutagenicity	No data available
Carcinogenicity	No data available
Reproductive Toxicity	No data available
Specific Target Organ Toxicity (Single Exposure)	No data available
Specific Target Organ Toxicity (Repeated Exposure)	No data available
Aspiration Hazard	No data available

#### Section 12 – ECOLOGICAL INFORMATION

Hazardous to the Aquatic Environment, Short-Term (Acute)	No data available
Hazardous to the Aquatic Environment, Long-Term (Chronic)	No data available
Ecotoxicity	No data available
Persistence	No data available
Bioaccumulative Potential	No data available
Mobility in Soil	No data available
Hazardous to the Ozone Layer	No data available

**Section 13 – DISPOSAL CONSIDERATIONS**

Residual Waste

Disposal should be in accordance with applicable regulations and standards by the respective local governments.

Commission a waste disposal company, or a local public body who are licensed by local or regional government, to dispose of the material.

Contaminated Container and Packaging

Recycle containers after cleansing, or carry out the disposal under the related laws and regulations and the standards of the local governments.

**Section 14 – TRANSPORT INFORMATION**

International Regulations

Regulatory Information by Sea  
Marine Pollutant Liquid Substance Transported in Bulk According to MARPOL 73/78, Annex II, the IBC Code

Not applicable

Not applicable

Not applicable

Regulations in Japan

Regulatory Information by Air  
Regulatory Information by Road or Rail  
Regulatory Information by Sea  
Marine Pollutant Liquid Substance Transported in Bulk According to MARPOL 73/78, Annex II, the IBC Code  
Regulatory Information by Air

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

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 2011/11/18

Revision Date 2022/02/08

## Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier WDF9-V  
 Product Code WDF9V00001  
 Name of Supplier PENTEL CO., LTD.  
 Address 7-2,KOAMICHO,NIHONBASHI,CHUO-KU,TOKYO  
 Company Contact QUALITY ASSURANCE DEPARTMENT I  
 Phone Number 03-5695-7210  
 Fax Number 03-5645-8204  
 Mail Address hinpo@pentel.co.jp  
 Emergency Phone Number 03-5695-7210  
 Recommended Use ink

Australian Company Pentel Australia Pty Ltd  
 Address Unit 4, 12 Mars Road, Lane Cove NSW 2066  
 Phone 1300 88 87 86  
 Emergency Phone 02 9425 4800  
 ABN 72 008 457 725

S520-V,SES15C-V,SESF30C-V

## Section 2 – HAZARDS IDENTIFICATION

## GHS Classification of the Chemical

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

## GHS Label Elements

## Pictograms



## Signal Word

Warning

## Hazard Statements

H320 Causes 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 liver,respiratory apparatus,heart,kidney,central nervous system through prolonged or repeated exposure

Precautionary  
Statements

## Prevention

Wear protective gloves/protective clothing/eye protection/face protection.(P280)  
Do not breathe mist/vapours/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

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: Call a doctor.(P308+P311)  
If eye irritation persists: Get medical advice/attention.(P337+P313)

## Storage

Store locked up.(P405)

## Disposal

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	9%	HOCH <sub>2</sub> CH <sub>2</sub> OH	(2)-230	Existing	107-21-1
Propylene glycol	2.4%	HOCH <sub>2</sub> CH(OH)C <sub>2</sub> H <sub>5</sub>	(2)-234	2-(8)-321 2-(8)-323	57-55-6
Diethylene glycol	9%	HOCH <sub>2</sub> CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub> OH	(2)-415	Existing	111-46-6
2-phenoxyethanol	0.5%		(3)-558,(7)-78,(9)-1277	Existing	122-99-6

## Section 4 – FIRST AID MEASURES

Inhalation

Call a doctor if you feel unwell.

Skin Contact

Wash with soap and water.

Eye Contact

Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do.  
Continue rinsing.

When the ocular stimulation lasts, Seek medical treatment and advice.

Ingestion

Rinse mouth. Do NOT induce vomiting.

Get medical advice and attention if you feel unwell.

## Section 5 – FIRE FIGHTING MEASURES

Suitable Extinguishing  
MediaDry chemicals, CO<sub>2</sub>, water spray or regular foam.

Unsuitable Extinguishing  
Media

No information available

## Section 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions,  
Protective Equipment and  
Emergency Procedures  
Environmental Precautions

No information available

Methods and Equipment  
for Containment and  
Cleaning up

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.

Prevention Measures for  
Secondary Accidents

Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container.  
After removal, flush contaminated area thoroughly with water.  
Prevent flowing into drain, sewage, basement, and closed area.  
Remove thoroughly since the smooth and slippery surface will be formed on the floor.

## 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

Conditions for Safe  
Storage

Refer to "Section 10 – STABILITY AND REACTIVITY".  
Have containers keep away from direct sunlight and heat.  
Keep away from heat.

## Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

Good general ventilation should be sufficient to control airborne levels.

Personal Protective  
Equipment

Respiratory  
Protection

Use personal respiratory equipment as required.

Hand Protection

Use personal gloves as required.

Eye/Face 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

Physical State

liquid

Form	liquid (viscous liquid)
Colour	purple
Odour	odorless
Melting Point/Freezing Point	No data available
Boiling Point or Initial Boiling Point and Boiling Ranges	No data available
Flammability	No data available
Lower and Upper Explosion Limit /	No data available
Flash Point	No data available
Auto-Ignition Temperature	No data available
Decomposition Temperature	No data available
pH	No data available
Kinematic Viscosity	No data available
Solubility	No data available
Partition Coefficient : n-Octanol/Water	No data available
Vapour Pressure	No data available
Density and/or Relative Density	No data available
Relative Gas Density	No data available
Particle Characteristics	No data available

#### Section 10 – STABILITY AND REACTIVITY

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

#### Section 11 – TOXICOLOGICAL INFORMATION

Acute Toxicity	No information available
Skin Corrosion/Irritation	No data available
Serious Eye Damage/Eye Irritation	No data available
Respiratory Sensitization	No data available
Skin Sensitization	No data available
Germ Cell Mutagenicity	No data available
Carcinogenicity	No data available
Reproductive Toxicity	No data available
Specific Target Organ Toxicity (Single Exposure)	No data available
Specific Target Organ Toxicity (Repeated Exposure)	No data available
Aspiration Hazard	No data available

#### Section 12 – ECOLOGICAL INFORMATION

Hazardous to the Aquatic Environment, Short-Term (Acute)	No data available
Hazardous to the Aquatic Environment, Long-Term (Chronic)	No data available
Ecotoxicity	No data available
Persistence	No data available
Bioaccumulative Potential	No data available
Mobility in Soil	No data available
Hazardous to the Ozone Layer	No data available

### Section 13 – DISPOSAL CONSIDERATIONS

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

### Section 14 – TRANSPORT INFORMATION

International Regulations	Regulatory Information by Sea	Not applicable
	Marine Pollutant	Not applicable
	Liquid Substance Transported in Bulk	Not applicable
	According to MARPOL 73/78, Annex II, the IBC Code	
	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
	Liquid Substance Transported in Bulk	Not applicable
	According to MARPOL 73/78, Annex II, 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

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 2011/11/18

Revision Date 2022/02/08

## Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier	WDF1-Y
Product Code	WDF1Y00001
Name of Supplier	PENTEL CO., LTD.
Address	7-2,KOAMICHO,NIHONBASHI,CHUO-KU,TOKYO
Company Contact	QUALITY ASSURANCE DEPARTMENT I
Phone Number	03-5695-7210
Fax Number	03-5645-8204
Mail Address	hinpo@pentel.co.jp
Emergency Phone Number	03-5695-7210

Recommended Use	ink
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Australian Company	Pentel Australia Pty Ltd
Address	Unit 4, 12 Mars Road, Lane Cove NSW 2066
Phone	1300 88 87 86
Emergency Phone	02 9425 4800
ABN	72 008 457 725

S520-Y,SES15C-Y,SESF30C-Y

## Section 2 – HAZARDS IDENTIFICATION

## GHS Classification of the Chemical

## 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  
 classified (Not applicable) or Classification not  
 possible.

## GHS Label Elements

## Pictograms



## 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/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

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  
Disposal

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

### Section 4 – FIRST AID MEASURES

Inhalation  
Skin Contact  
Eye Contact

Call a doctor if you feel unwell.  
Wash with soap and water.  
Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do.  
Continue rinsing.

Ingestion

When the ocular stimulation lasts, Seek medical treatment and advice.  
Rinse mouth. Do NOT induce vomiting.  
Get medical advice and attention if you feel unwell.

### Section 5 – FIRE FIGHTING MEASURES

Suitable Extinguishing  
Media  
Unsuitable Extinguishing  
Media

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

No information available

### Section 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions,  
Protective Equipment and  
Emergency Procedures  
Environmental Precautions

No information available

Methods and Equipment  
for Containment and  
Cleaning up

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.

Prevention Measures for  
Secondary Accidents

Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container.  
After removal, flush contaminated area thoroughly with water.  
Prevent flowing into drain, sewage, basement, and closed area.  
Remove thoroughly since the smooth and slippery surface will be formed on the floor.

### 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	Conditions for Safe Storage	Refer to "Section 10 – STABILITY AND REACTIVITY". Have containers keep away from direct sunlight and heat. Keep away from heat.

## Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls		Good general ventilation should be sufficient to control airborne levels.
Personal Protective Equipment	Respiratory Protection	Use personal respiratory equipment as required.
	Hand Protection	Use personal gloves as required.
	Eye/Face 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

Physical State	liquid
Form	liquid
Colour	yellow ochre
Odour	odorless
Melting Point/Freezing Point	No data available
Boiling Point or Initial Boiling Point and Boiling Ranges	No data available
Flammability	No data available
Lower and Upper Explosion Limit / Flash Point	No data available
Auto-Ignition Temperature	No data available
Decomposition Temperature	No data available
pH	No data available
Kinematic Viscosity	No data available
Solubility	No data available
Partition Coefficient : n-Octanol/Water	No data available
Vapour Pressure	No data available
Density and/or Relative Density	No data available
Relative Gas Density	No data available
Particle Characteristics	No data available

## Section 10 – STABILITY AND REACTIVITY

Reactivity	No data available
Chemical Stability	No data available

Possibility of Hazardous Reaction	No data available
Conditions to Avoid	No data available
Incompatible Substances or Mixtures	No data available
Hazardous Decomposition Products	No data available

## Section 11 – TOXICOLOGICAL INFORMATION

Acute Toxicity	No information available
Skin Corrosion/Irritation	No data available
Serious Eye Damage/Eye Irritation	No data available
Respiratory Sensitization	No data available
Skin Sensitization	No data available
Germ Cell Mutagenicity	No data available
Carcinogenicity	No data available
Reproductive Toxicity	No data available
Specific Target Organ Toxicity (Single Exposure)	No data available
Specific Target Organ Toxicity (Repeated Exposure)	No data available
Aspiration Hazard	No data available

## Section 12 – ECOLOGICAL INFORMATION

Hazardous to the Aquatic Environment, Short-Term (Acute)	No data available
Hazardous to the Aquatic Environment, Long-Term (Chronic)	No data available
Ecotoxicity	No data available
Persistence	No data available
Bioaccumulative Potential	No data available
Mobility in Soil	No data available
Hazardous to the Ozone Layer	No data available

## Section 13 – DISPOSAL CONSIDERATIONS

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

## Section 14 – TRANSPORT INFORMATION

International Regulations	Regulatory Information by Sea	Not applicable
	Marine Pollutant	Not applicable
	Liquid Substance Transported in Bulk According to MARPOL 73/78, Annex II, 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
	Liquid Substance Transported in Bulk According to MARPOL 73/78, Annex II, the IBC Code	Not applicable
	Regulatory Information by Air	Not applicable
Emergency Response Guide Number		Not applicable

#### Section 15 – REGULATORY INFORMATION

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

#### Section 16 – OTHER INFORMATION

Information Contact  
Other Property

No information available

This information is furnished without warranty express or implied.

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

## Safety Data Sheet (SDS)

Preparation Date 2017/10/20  
Revision Date 2022/02/04

## Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier WDF1-A  
Product Code WDF1A00002  
Name of Supplier PENTEL CO., LTD.  
Address 7-2,KOAMICHO,NIHONBASHI,CHUO-KU,TOKYO  
Company Contact QUALITY ASSURANCE DEPARTMENT I  
Phone Number 03-5695-7210  
Fax Number 03-5645-8204  
Mail Address hinpo@pentel.co.jp  
Emergency Phone Number 03-5695-7210  
Recommended Use ink

Australian Company Pentel Australia Pty Ltd  
Address Unit 4, 12 Mars Road, Lane Cove NSW 2066  
Phone 1300 88 87 86  
Emergency Phone 02 9425 4800  
ABN 72 008 457 725

S520-A,SES15C-A,SESF30C-A

## Section 2 – HAZARDS IDENTIFICATION

## GHS Classification of the Chemical

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

## GHS Label Elements

## Pictograms



Signal Word Danger  
Hazard Statements H315 Causes skin irritation  
H319 Causes serious eye irritation  
H332 Harmful if inhaled  
H370 Causes damage to blood,kidney,central nervous system  
Precautionary Statements  
Prevention Do not breathe mist/vapours/spray.(P260)  
Avoid breathing dust.(P261)  
Wash hand thoroughly after handling.(P264)  
Wash eye thoroughly after handling.(P264)



Prevention Measures for Secondary Accidents	Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. After removal, flush contaminated area thoroughly with water. Prevent flowing into drain, sewage, basement, and closed area. Remove thoroughly since the smooth and slippery surface will be formed on the floor.
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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.  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	Conditions for Safe Storage	Refer to "Section 10 – STABILITY AND REACTIVITY". Have containers keep away from direct sunlight and heat. Keep away from heat.

## Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls	Good general ventilation should be sufficient to control airborne levels.
Personal Protective Equipment	Eye/Face Protection Use personal eye protection as required.

## Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State	liquid
Form	liquid
Colour	black
Odour	No data available
Melting Point/Freezing Point	No data available
Boiling Point or Initial Boiling Point and Boiling Ranges	No data available
Flammability	No data available
Lower and Upper Explosion Limit /	No data available
Flash Point	No data available
Auto-Ignition Temperature	No data available
Decomposition Temperature	No data available
pH	No data available
Kinematic Viscosity	No data available
Solubility	No data available

Partition Coefficient : n- Octanol/Water	No data available
Vapour Pressure	No data available
Density and/or Relative Density	No data available
Relative Gas Density	No data available
Particle Characteristics	No data available

#### Section 10 – STABILITY AND REACTIVITY

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

#### Section 11 – TOXICOLOGICAL INFORMATION

Acute Toxicity	No information available
Skin Corrosion/Irritation	No data available
Serious Eye Damage/Eye Irritation	No data available
Respiratory Sensitization	No data available
Skin Sensitization	No data available
Germ Cell Mutagenicity	No data available
Carcinogenicity	No data available
Reproductive Toxicity	No data available
Specific Target Organ Toxicity (Single Exposure)	No data available
Specific Target Organ Toxicity (Repeated Exposure)	No data available
Aspiration Hazard	No data available

#### Section 12 – ECOLOGICAL INFORMATION

Hazardous to the Aquatic Environment, Short-Term (Acute)	No data available
Hazardous to the Aquatic Environment, Long-Term (Chronic)	No data available
Ecotoxicity	No data available
Persistence	No data available
Bioaccumulative Potential	No data available
Mobility in Soil	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.
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Contaminated Container and Packaging	<p>Commission a waste disposal company, or a local public body who are licensed by local or regional government, to dispose of the material.</p> <p>When commissioning the disposal to a disposal company, notify the danger and toxicity thoroughly to the company.</p> <p>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.</p> <p>Recycle containers after cleansing, or carry out the disposal under the related laws and regulations and the standards of the local governments.</p>
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**Section 14 – TRANSPORT INFORMATION**

International Regulations	Regulatory Information by Sea	Not applicable
	Marine Pollutant Liquid Substance Transported in Bulk According to MARPOL 73/78, Annex II, 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 Liquid Substance Transported in Bulk According to MARPOL 73/78, Annex II, 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	<p>This information is furnished without warranty express or implied.</p> <p>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.</p>

## Safety Data Sheet (SDS)

Preparation Date 2011/08/11

Revision Date 2022/02/04

## Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

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

Australian Company Pentel Australia Pty Ltd  
 Address Unit 4, 12 Mars Road, Lane Cove NSW 2066  
 Phone 1300 88 87 86  
 Emergency Phone 02 9425 4800  
 ABN 72 008 457 725

S520-B,SES15C-B,SESF30C-B

## Section 2 – HAZARDS IDENTIFICATION

## GHS Classification of the Chemical

Health Hazards Acute toxicity (Inhalation: dust and mist) Category 4  
 Skin corrosion/irritation Category 2  
 Serious eye damage/eye irritation Category 2A  
 Specific target organ toxicity (single exposure) Category 1(blood,kidney,central nervous system)  
 Specific target organ toxicity (single exposure) Category 3(narcotic effect,respiratory tract irritation)  
 Other hazards than mentioned above are Not classified (Not applicable) or Classification not possible.

## GHS Label Elements

## Pictograms



## Signal Word

Danger

## Hazard Statements

H315 Causes skin irritation  
 H319 Causes serious eye irritation  
 H332 Harmful if inhaled  
 H335 May cause respiratory irritation  
 H336 May cause drowsiness or dizziness  
 H370 Causes damage to blood,kidney,central nervous system

Precautionary  
Statements

## Prevention

Do not breathe mist/vapours/spray.(P260)  
 Avoid breathing mist/vapours/spray.(P261)  
 Avoid breathing dust.(P261)  
 Use only outdoors or in a well-ventilated area.(P271)  
 Wear protective gloves.(P280)  
 Wear eye protection/face protection.(P280)  
 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 ON SKIN: Wash with plenty of soap and water.(P302+P352)  
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.(P304+P340)  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.(P305+P351+P338)  
 Call a doctor if you feel unwell.(P312)  
 If skin irritation occurs: Get medical advice/attention.(P332+P313)  
 Take off contaminated clothing and wash it before reuse.(P362+P364)  
 If eye irritation persists: Get medical advice/attention.(P337+P313)

## Storage

Store in a well-ventilated place. Keep container tightly closed.(P403+P233)

## Disposal

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.	
Ethylene glycol	25%	HOCH <sub>2</sub> CH <sub>2</sub> OH	(2)-230	Existing	107-21-1
2-phenoxyethanol	0.5%		(3)-558,(7)-78,(9)-1277	Existing	122-99-6

## Section 4 – FIRST AID MEASURES

Inhalation

Call a doctor if you feel unwell.

Skin Contact

Wash with soap and water.

Eye Contact

Rinse cautiously with water for several minutes.  
 Remove contact lenses, if present and easy to do.  
 Continue rinsing.

When the ocular stimulation lasts, Seek medical treatment and advice.

Ingestion

Rinse mouth. Do NOT induce vomiting.

Get medical advice and attention if you feel unwell.

**Section 5 – FIRE FIGHTING MEASURES**

Suitable Extinguishing  
Media

Small fires: Dry chemical, CO2, water spray or regular foam.

Unsuitable Extinguishing  
Media

No information available

**Section 6 – ACCIDENTAL RELEASE MEASURES**

Personal Precautions,  
Protective Equipment and  
Emergency Procedures  
Environmental Precautions

No information available

Methods and Equipment  
for Containment and  
Cleaning up

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.

Prevention Measures for  
Secondary Accidents

Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. After removal, flush contaminated area thoroughly with water.  
Prevent flowing into drain, sewage, basement, and closed area.  
Remove thoroughly since the smooth and slippery surface will be formed on the floor.

**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

Conditions for Safe  
Storage

Refer to "Section 10 – STABILITY AND REACTIVITY".

Have containers keep away from direct sunlight and heat.

Keep away from heat.

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

Engineering Controls

Good general ventilation should be sufficient to control airborne levels.

Personal Protective  
Equipment

Respiratory  
Protection

Use personal respiratory equipment as required.

Hand Protection

Use personal gloves as required.

Eye/Face 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

Physical State	liquid
Form	liquid (viscous liquid)
Colour	red
Odour	odorless
Melting Point/Freezing Point	No data available
Boiling Point or Initial Boiling Point and Boiling Ranges	No data available
Flammability	No data available
Lower and Upper Explosion Limit /	No data available
Flash Point	No data available
Auto-Ignition Temperature	No data available
Decomposition Temperature	No data available
pH	No data available
Kinematic Viscosity	No data available
Solubility	No data available
Partition Coefficient : n-Octanol/Water	No data available
Vapour Pressure	No data available
Density and/or Relative Density	No data available
Relative Gas Density	No data available
Particle Characteristics	No data available

#### Section 10 – STABILITY AND REACTIVITY

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

#### Section 11 – TOXICOLOGICAL INFORMATION

Acute Toxicity	No information available
Skin Corrosion/Irritation	No data available
Serious Eye Damage/Eye Irritation	No data available
Respiratory Sensitization	No data available
Skin Sensitization	No data available
Germ Cell Mutagenicity	No data available
Carcinogenicity	No data available
Reproductive Toxicity	No data available
Specific Target Organ Toxicity (Single Exposure)	No data available

Specific Target Organ Toxicity (Repeated Exposure)	No data available
Aspiration Hazard	No data available

## Section 12 – ECOLOGICAL INFORMATION

Hazardous to the Aquatic Environment, Short-Term (Acute)	No data available
Hazardous to the Aquatic Environment, Long-Term (Chronic)	No data available
Ecotoxicity	No data available
Persistence	No data available
Bioaccumulative Potential	No data available
Mobility in Soil	No data available
Hazardous to the Ozone Layer	No data available

## Section 13 – DISPOSAL CONSIDERATIONS

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

## Section 14 – TRANSPORT INFORMATION

International Regulations	Regulatory Information by Sea	Not applicable
	Marine Pollutant	Not applicable
	Liquid Substance Transported in Bulk	Not applicable
	According to MARPOL 73/78, Annex II, the IBC Code	
	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
	Liquid Substance Transported in Bulk	Not applicable
	According to MARPOL 73/78, Annex II, 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  
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 PENDEL 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 2022/02/08

## Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

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

Australian Company Pentel Australia Pty Ltd  
 Address Unit 4, 12 Mars Road, Lane Cove NSW 2066  
 Phone 1300 88 87 86  
 Emergency Phone 02 9425 4800  
 ABN 72 008 457 725

S520-C,SES15C-C,SESF30C-C

## Section 2 – HAZARDS IDENTIFICATION

## GHS Classification of the Chemical

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,kidney,central nervous system)  
 Other hazards than mentioned above are Not classified (Not applicable) or Classification not possible.

## GHS Label Elements

## Pictograms



## 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/protective clothing/eye protection/face protection.(P280)  
Do not breathe mist/vapours/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

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: Call a doctor.(P308+P311)  
If eye irritation persists: Get medical advice/attention.(P337+P313)

## Storage

Store locked up.(P405)

## Disposal

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 <sub>2</sub> OH	(2)-230	Existing	107-21-1
Diethylene glycol	15%	HOCH <sub>2</sub> CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub> OH	(2)-415	Existing	111-46-6
2-phenoxyethanol	0.5%		(3)-558,(7)-78,(9)-1277	Existing	122-99-6

## Section 4 – FIRST AID MEASURES

Inhalation

Call a doctor if you feel unwell.

Skin Contact

Wash with soap and water.

Eye Contact

Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do.  
Continue rinsing.

When the ocular stimulation lasts, Seek medical treatment and advice.

Ingestion

Rinse mouth. Do NOT induce vomiting.

Get medical advice and attention if you feel unwell.

## Section 5 – FIRE FIGHTING MEASURES

Suitable Extinguishing

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

Media

Unsuitable Extinguishing

No information available

Media

## Section 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions,  
Protective Equipment and  
Emergency Procedures  
Environmental Precautions

No information available

Methods and Equipment  
for Containment and  
Cleaning up

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.

Prevention Measures for  
Secondary Accidents

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

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

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

## 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

Conditions for Safe  
Storage

Refer to "Section 10 – STABILITY AND REACTIVITY".

Have containers keep away from direct sunlight and heat.

Keep away from heat.

## Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

Good general ventilation should be sufficient to control airborne levels.

Personal Protective  
Equipment

Respiratory  
Protection

Use personal respiratory equipment as required.

Hand Protection

Use personal gloves as required.

Eye/Face Protection

Use personal face protection as required.

Skin and Body

Use personal protective clothing and face

Protection

protection as required.

## Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State

liquid

Form

liquid (viscous liquid)

Colour

blue

Odour

odorless

Melting Point/Freezing Point	No data available
Boiling Point or Initial Boiling Point and Boiling Ranges	No data available
Flammability	No data available
Lower and Upper Explosion Limit /	No data available
Flash Point	No data available
Auto-Ignition Temperature	No data available
Decomposition Temperature	No data available
pH	No data available
Kinematic Viscosity	No data available
Solubility	No data available
Partition Coefficient : n-Octanol/Water	No data available
Vapour Pressure	No data available
Density and/or Relative Density	No data available
Relative Gas Density	No data available
Particle Characteristics	No data available

#### Section 10 – STABILITY AND REACTIVITY

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

#### Section 11 – TOXICOLOGICAL INFORMATION

Acute Toxicity	No information available
Skin Corrosion/Irritation	No data available
Serious Eye Damage/Eye Irritation	No data available
Respiratory Sensitization	No data available
Skin Sensitization	No data available
Germ Cell Mutagenicity	No data available
Carcinogenicity	No data available
Reproductive Toxicity	No data available
Specific Target Organ Toxicity (Single Exposure)	No data available
Specific Target Organ Toxicity (Repeated Exposure)	No data available
Aspiration Hazard	No data available

#### Section 12 – ECOLOGICAL INFORMATION

Hazardous to the Aquatic Environment, Short-Term (Acute)	No data available
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Hazardous to the Aquatic Environment, Long-Term (Chronic)	No data available
Ecotoxicity	No data available
Persistence	No data available
Bioaccumulative Potential	No data available
Mobility in Soil	No data available
Hazardous to the Ozone Layer	No data available

### Section 13 – DISPOSAL CONSIDERATIONS

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

### Section 14 – TRANSPORT INFORMATION

International Regulations	Regulatory Information by Sea	Not applicable
	Marine Pollutant	Not applicable
	Liquid Substance Transported in Bulk According to MARPOL 73/78, Annex II, 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
	Liquid Substance Transported in Bulk According to MARPOL 73/78, Annex II, 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
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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 2011/08/11

Revision Date 2022/02/04

## Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

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

Australian Company Pentel Australia Pty Ltd  
 Address Unit 4, 12 Mars Road, Lane Cove NSW 2066  
 Phone 1300 88 87 86  
 Emergency Phone 02 9425 4800  
 ABN 72 008 457 725

S520-D,SES15C-D,SESF30C-D

## Section 2 – HAZARDS IDENTIFICATION

## GHS Classification of the Chemical

Health Hazards Acute toxicity (Inhalation: dust and mist) Category 4  
 Skin corrosion/irritation Category 2  
 Serious eye damage/eye irritation Category 2A  
 Specific target organ toxicity (single exposure) Category 1(blood,kidney,central nervous system)  
 Specific target organ toxicity (single exposure) Category 3(narcotic effect,respiratory tract irritation)  
 Other hazards than mentioned above are Not classified (Not applicable) or Classification not possible.

## GHS Label Elements

## Pictograms



## Signal Word

Danger

## Hazard Statements

H315 Causes skin irritation  
 H319 Causes serious eye irritation  
 H332 Harmful if inhaled  
 H335 May cause respiratory irritation  
 H336 May cause drowsiness or dizziness  
 H370 Causes damage to blood,kidney,central nervous system

Precautionary  
Statements

Prevention	<p>Do not breathe mist/vapours/spray.(P260)          Avoid breathing mist/vapours/spray.(P261)          Avoid breathing dust.(P261)          Use only outdoors or in a well-ventilated area.(P271)          Wear protective gloves.(P280)          Wear eye protection/face protection.(P280)          Wash hand thoroughly after handling.(P264)          Wash eye thoroughly after handling.(P264)          Do not eat, drink or smoke when using this product.(P270)</p>
Response	<p>IF ON SKIN: Wash with plenty of soap and water.(P302+P352)          IF INHALED: Remove person to fresh air and keep comfortable for breathing.(P304+P340)          IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.(P305+P351+P338)          Call a doctor if you feel unwell.(P312)          If skin irritation occurs: Get medical advice/attention.(P332+P313)          Take off contaminated clothing and wash it before reuse.(P362+P364)          If eye irritation persists: Get medical advice/attention.(P337+P313)</p>
Storage	<p>Store in a well-ventilated place. Keep container tightly closed.(P403+P233)          Store locked up.(P405)</p>
Disposal	<p>Dispose of contents and container in accordance with local, regional and national regulations (to be specified).(P501)</p>

## Section 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Distinction of Substance  
or Mixture

Mixture

Chemical Name or Generic Name	Concentration or Its Ranges	Formula	ENCS No./ISHL No.		CAS RN
			ENCS No.	ISHL No.	
Ethylene glycol	28%	HOCH <sub>2</sub> CH <sub>2</sub> OH	(2)-230	Existing	107-21-1
2-phenoxyethanol	0.5%		(3)-558,(7)-78,(9)-1277	Existing	122-99-6

## Section 4 – FIRST AID MEASURES

Inhalation

Skin Contact

Eye Contact

Call a doctor if you feel unwell.

Wash with soap and water.

Rinse cautiously with water for several minutes.  
 Remove contact lenses, if present and easy to do.  
 Continue rinsing.

When the ocular stimulation lasts, Seek medical treatment and advice.

Ingestion

Rinse mouth. Do NOT induce vomiting.

Get medical advice and attention if you feel unwell.

## Section 5 – FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Dry chemicals, CO <sub>2</sub> , water spray or regular foam.
Unsuitable Extinguishing Media	No information available

## Section 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures	No information available
Environmental Precautions	Pay attention not to cause the influence on the environment by discharging into rivers.

This product is water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.

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

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

Prevention Measures for Secondary Accidents  
Prevent flowing into drain, sewage, basement, and closed area.

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

## Section 7 – HANDLING AND STORAGE

Handling	Technical Measures	Provide ventilation system and use necessary personal protective equipment as described in "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION".
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Precautions for Safe Handling	Wash hand thoroughly after handling.
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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".
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Storage	Conditions for Safe Storage	Refer to "Section 10 – STABILITY AND REACTIVITY".
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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.
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Personal Protective Equipment	Respiratory Protection	Use personal respiratory equipment as required.
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Hand Protection	Use personal gloves as required.
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Eye/Face Protection Use personal eye protection as required.

#### Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State	liquid
Form	liquid (viscous liquid)
Colour	green
Odour	odorless
Melting Point/Freezing Point	No data available
Boiling Point or Initial Boiling Point and Boiling Ranges	No data available
Flammability	No data available
Lower and Upper Explosion Limit /	No data available
Flash Point	No data available
Auto-Ignition Temperature	No data available
Decomposition Temperature	No data available
pH	No data available
Kinematic Viscosity	No data available
Solubility	No data available
Partition Coefficient : n-Octanol/Water	No data available
Vapour Pressure	No data available
Density and/or Relative Density	No data available
Relative Gas Density	No data available
Particle Characteristics	No data available

#### Section 10 – STABILITY AND REACTIVITY

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

#### Section 11 – TOXICOLOGICAL INFORMATION

Acute Toxicity	No information available
Skin Corrosion/Irritation	No data available
Serious Eye Damage/Eye Irritation	No data available
Respiratory Sensitization	No data available
Skin Sensitization	No data available
Germ Cell Mutagenicity	No data available
Carcinogenicity	No data available
Reproductive Toxicity	No data available
Specific Target Organ Toxicity (Single Exposure)	No data available
Specific Target Organ Toxicity (Repeated Exposure)	No data available

Aspiration Hazard	No data available
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#### Section 12 – ECOLOGICAL INFORMATION

Hazardous to the Aquatic Environment, Short-Term (Acute)	No data available
Hazardous to the Aquatic Environment, Long-Term (Chronic)	No data available
Ecotoxicity	No data available
Persistence	No data available
Bioaccumulative Potential	No data available
Mobility in Soil	No data available
Hazardous to the Ozone Layer	No data available

#### Section 13 – DISPOSAL CONSIDERATIONS

Residual Waste	<p>Disposal should be in accordance with applicable regulations and standards by the respective local governments.</p> <p>Commission a waste disposal company, or a local public body who are licensed by local or regional government, to dispose of the material.</p>
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
	Liquid Substance Transported in Bulk	Not applicable
	According to MARPOL 73/78, Annex II, the IBC Code	
	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
	Liquid Substance Transported in Bulk	Not applicable
	According to MARPOL 73/78, Annex II, 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

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 PENDEL Co., Ltd. but not assumes legal responsibility for use of or reliance upon this information.

## Safety Data Sheet (SDS)

Preparation Date 2011/11/18

Revision Date 2022/02/04

## Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier WDF1-E  
 Product Code WDF1E00001  
 Name of Supplier PENTEL CO., LTD.  
 Address 7-2,KOAMICHO,NIHONBASHI,CHUO-KU,TOKYO  
 Company Contact QUALITY ASSURANCE DEPARTMENT I  
 Phone Number 03-5695-7210  
 Fax Number 03-5645-8204  
 Mail Address hinpo@pentel.co.jp  
 Emergency Phone Number 03-5695-7210  
 Recommended Use ink

Australian Company Pentel Australia Pty Ltd  
 Address Unit 4, 12 Mars Road, Lane Cove NSW 2066  
 Phone 1300 88 87 86  
 Emergency Phone 02 9425 4800  
 ABN 72 008 457 725

S520-E,SES15C-E,SESF30C-E

## Section 2 – HAZARDS IDENTIFICATION

## GHS Classification of the Chemical

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

## GHS Label Elements

## Pictograms



Signal Word Danger  
 Hazard Statements H315 Causes skin irritation  
 H319 Causes serious eye irritation  
 H332 Harmful if inhaled  
 H370 Causes damage to blood,kidney,central nervous system  
 Precautionary Statements  
 Prevention Do not breathe mist/vapours/spray.(P260)  
 Avoid breathing mist/vapours/spray.(P261)  
 Avoid breathing dust.(P261)

	Use only outdoors or in a well-ventilated area.(P271)
	Wear protective gloves.(P280)
	Wear eye protection/face protection.(P280)
	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 ON SKIN: Wash with plenty of soap and water.(P302+P352)
	IF INHALED: Remove person to fresh air and keep comfortable for breathing.(P304+P340)
	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.(P305+P351+P338)
	Call a doctor if you feel unwell.(P312)
	If skin irritation occurs: Get medical advice/attention.(P332+P313)
	Take off contaminated clothing and wash it before reuse.(P362+P364)
	If eye irritation persists: Get medical advice/attention.(P337+P313)
Storage	Store locked up.(P405)
Disposal	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 <sub>2</sub> OH	(2)-230	Existing	107-21-1
Direct blue 87	1.33%		(5)-1299	Existing	1330-39-8
2-phenoxyethanol	0.5%		(3)-558,(7)-78,(9)-1277	Existing	122-99-6

**Section 4 – FIRST AID MEASURES**

Inhalation  
 Skin Contact  
 Eye Contact

Call a doctor if you feel unwell.  
 Wash with soap and water.  
 Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 When the ocular stimulation lasts, Seek medical treatment and advice.  
 Rinse mouth. Do NOT induce vomiting.  
 Get medical advice and attention if you feel unwell.

Ingestion

**Section 5 – FIRE FIGHTING MEASURES**

Suitable Extinguishing Media

Small fires: Dry chemical, CO<sub>2</sub>, water spray or regular foam.

Unsuitable Extinguishing Media

No information available

Section 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures  
Environmental Precautions

No information available

Methods and Equipment for Containment and Cleaning up

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.

Prevention Measures for Secondary Accidents

Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. After removal, flush contaminated area thoroughly with water.  
Prevent flowing into drain, sewage, basement, and closed area.  
Remove thoroughly since the smooth and slippery surface will be formed on the floor.

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

Conditions for Safe Storage

Refer to "Section 10 – STABILITY AND REACTIVITY".  
Have containers keep away from direct sunlight and heat.  
Keep away from heat.

Safe Materials Used in Packagings/Containers

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

Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

Carry out handling of the material in the workplace equipped with a full ventilation system.  
Good general ventilation should be sufficient to control airborne levels.

Personal Protective Equipment

Respiratory Protection

If ventilation is insufficient, wear an adequate protective apparatus for respiratory organs.

Hand Protection

Wear protective gloves.

Eye/Face Protection Wear face protection.  
Wear eye protection.  
Protection glasses (ordinary glasses, ordinary glasses with side shields, and goggles).

#### Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State	liquid
Form	liquid (viscous liquid)
Colour	light brown
Odour	odorless
Melting Point/Freezing Point	No data available
Boiling Point or Initial Boiling Point and Boiling Ranges	No data available
Flammability	No data available
Lower and Upper Explosion Limit /	No data available
Flash Point	No data available
Auto-Ignition Temperature	No data available
Decomposition Temperature	No data available
pH	No data available
Kinematic Viscosity	No data available
Solubility	No data available
Partition Coefficient : n-Octanol/Water	No data available
Vapour Pressure	No data available
Density and/or Relative Density	No data available
Relative Gas Density	No data available
Particle Characteristics	No data available

#### Section 10 – STABILITY AND REACTIVITY

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

#### Section 11 – TOXICOLOGICAL INFORMATION

Acute Toxicity	No information available
Skin Corrosion/Irritation	No data available
Serious Eye Damage/Eye Irritation	No data available
Respiratory Sensitization	No data available
Skin Sensitization	No data available
Germ Cell Mutagenicity	No data available
Carcinogenicity	No data available
Reproductive Toxicity	No data available
Specific Target Organ Toxicity (Single Exposure)	No data available

Specific Target Organ Toxicity (Repeated Exposure)	No data available
Aspiration Hazard	No data available

## Section 12 – ECOLOGICAL INFORMATION

Hazardous to the Aquatic Environment, Short-Term (Acute)	No data available
Hazardous to the Aquatic Environment, Long-Term (Chronic)	No data available
Ecotoxicity	No data available
Persistence	No data available
Bioaccumulative Potential	No data available
Mobility in Soil	No data available
Hazardous to the Ozone Layer	No data available

## Section 13 – DISPOSAL CONSIDERATIONS

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

## Section 14 – TRANSPORT INFORMATION

International Regulations	Regulatory Information by Sea	Not applicable
	Marine Pollutant	Not applicable
	Liquid Substance Transported in Bulk	Not applicable
	According to MARPOL 73/78, Annex II, the IBC Code	
	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
	Liquid Substance Transported in Bulk	Not applicable
	According to MARPOL 73/78, Annex II, 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  
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 PENDEL Co., Ltd. but not assumes legal responsibility for use of or reliance upon this information.

## Safety Data Sheet (SDS)

Preparation Date 2011/11/18

Revision Date 2022/02/04

## Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier WDF1-F  
 Product Code WDF1F00001  
 Name of Supplier PENTEL CO., LTD.  
 Address 7-2,KOAMICHO,NIHONBASHI,CHUO-KU,TOKYO  
 Company Contact QUALITY ASSURANCE DEPARTMENT I  
 Phone Number 03-5695-7210  
 Fax Number 03-5645-8204  
 Mail Address hinpo@pentel.co.jp  
 Emergency Phone Number 03-5695-7210  
 Recommended Use ink

Australian Company Pentel Australia Pty Ltd  
 Address Unit 4, 12 Mars Road, Lane Cove NSW 2066  
 Phone 1300 88 87 86  
 Emergency Phone 02 9425 4800  
 ABN 72 008 457 725

S520-F.SES15C-F,SESF30C-F

## Section 2 – HAZARDS IDENTIFICATION

## GHS Classification of the Chemical

Health Hazards Acute toxicity (Inhalation: dust and mist) Category 4  
 Skin corrosion/irritation Category 2  
 Serious eye damage/eye irritation Category 2A  
 Specific target organ toxicity (single exposure) Category 1(blood,kidney,central nervous system)  
 Specific target organ toxicity (single exposure) Category 3(narcotic effect,respiratory tract irritation)  
 Other hazards than mentioned above are Not classified (Not applicable) or Classification not possible.

## GHS Label Elements

## Pictograms



## Signal Word

Danger

## Hazard Statements

H315 Causes skin irritation  
 H319 Causes serious eye irritation  
 H332 Harmful if inhaled  
 H335 May cause respiratory irritation  
 H336 May cause drowsiness or dizziness  
 H370 Causes damage to blood,kidney,central nervous system

Precautionary  
Statements

## Prevention

Do not breathe mist/vapours/spray.(P260)  
 Avoid breathing mist/vapours/spray.(P261)  
 Avoid breathing dust.(P261)  
 Use only outdoors or in a well-ventilated area.(P271)  
 Wear protective gloves.(P280)  
 Wear eye protection/face protection.(P280)  
 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 ON SKIN: Wash with plenty of soap and water.(P302+P352)  
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.(P304+P340)  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.(P305+P351+P338)  
 Call a doctor if you feel unwell.(P312)  
 If skin irritation occurs: Get medical advice/attention.(P332+P313)  
 Take off contaminated clothing and wash it before reuse.(P362+P364)  
 If eye irritation persists: Get medical advice/attention.(P337+P313)

## Storage

Store in a well-ventilated place. Keep container tightly closed.(P403+P233)

## Disposal

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.	
Ethylene glycol	27.5%	HOCH <sub>2</sub> CH <sub>2</sub> OH	(2)-230	Existing	107-21-1
2-phenoxyethanol	0.5%		(3)-558,(7)-78,(9)-1277	Existing	122-99-6

## Section 4 – FIRST AID MEASURES

Inhalation

Call a doctor if you feel unwell.

Skin Contact

Wash with soap and water.

Eye Contact

Rinse cautiously with water for several minutes.  
 Remove contact lenses, if present and easy to do.  
 Continue rinsing.

When the ocular stimulation lasts, Seek medical treatment and advice.

Ingestion

Rinse mouth. Do NOT induce vomiting.

Get medical advice and attention if you feel unwell.

## Section 5 – FIRE FIGHTING MEASURES

Suitable Extinguishing  
Media

Small fires: Dry chemical, CO<sub>2</sub>, water spray or regular foam.

Unsuitable Extinguishing  
Media

No information available

## Section 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions,  
Protective Equipment and  
Emergency Procedures  
Environmental Precautions

No information available

Methods and Equipment  
for Containment and  
Cleaning up

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.  
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

Conditions for Safe  
Storage

Refer to "Section 10 – STABILITY AND REACTIVITY".

Have containers keep away from direct sunlight and heat.

Keep away from heat.

## Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

Good general ventilation should be sufficient to control airborne levels.

Personal Protective  
Equipment

Respiratory  
Protection

Use personal respiratory equipment as required.

Hand Protection

Use personal gloves as required.

Eye/Face Protection

Use personal face protection as required.

Skin and Body  
Protection

Use personal protective clothing and face  
protection as required.

## Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State	liquid
Form	liquid (viscous liquid)
Colour	orange
Odour	odorless
Melting Point/Freezing Point	No data available
Boiling Point or Initial Boiling Point and Boiling Ranges	No data available
Flammability	No data available
Lower and Upper Explosion Limit /	No data available
Flash Point	No data available
Auto-Ignition Temperature	No data available
Decomposition Temperature	No data available
pH	No data available
Kinematic Viscosity	No data available
Solubility	No data available
Partition Coefficient : n-Octanol/Water	No data available
Vapour Pressure	No data available
Density and/or Relative Density	No data available
Relative Gas Density	No data available
Particle Characteristics	No data available

## Section 10 – STABILITY AND REACTIVITY

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

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Guide Number

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