

Safety Data Sheet (SDS)

Preparation Date 2014/12/24

Revision Date 2017/10/18

Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier WPF11-A
 Product Code WPF11A0001
 Company Name PENTEL CO., LTD.
 Address 7-2,KOAMICHO,NIHONBASHI,CHUO-KU,TOKYO
 Company Contact QUALITY ASSURANCE DEPARTMENT I
 Phone Number 03-5695-7210
 Fax Number 03-5645-8204
 Mail Address hinpo@pentel.co.jp
 Emergency Phone Number 03-5695-7210
 Recommended Use ink
 and Restriction on Use
 SMW26-A.SMW56-A

Section 2 – HAZARDS IDENTIFICATION

GHS Classification

Health Hazards Serious eye damage/eye irritation Category 2B
 Germ cell mutagenicity Category 1B
 Carcinogenicity Category 2
 Reproductive toxicity Category 1A
 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,central
 nervous system,lung)
 Other hazards than mentioned above are Not
 applicable or Classification not possible.

GHS Label Elements

Symbols



Signal Word Danger
 Hazard Statements H320 Causes eye irritation
 H340 May cause genetic defects
 H351 Suspected of causing cancer
 H360 May damage 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,central nervous system,lung
 through prolonged or repeated exposure
 Precautionary
 Statements
 Prevention Obtain special instructions before use.(P201)
 Precautionary
 Statements Do not handle until all safety precautions have
 been read and understood.(P202)

	Do not breathe mist, vapours and spray.(P260) Wash hand thoroughly after handling.(P264) Wash eye thoroughly after handling.(P264) Do not eat, drink or smoke when using this product.(P270) Wear protective gloves.(P280)
Response Precautionary Statements	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.(P305+P351+P338) IF exposed or concerned: Get medical advice and attention.(P308+P313) Get medical advice and attention if you feel unwell.(P314) If eye irritation persists: Get medical advice and attention.(P337+P313)
Storage Precautionary Statements	Store locked up.(P405)
Disposal Precautionary Statements	Dispose of contents and container in accordance with local, regional and national regulations (to be specified).(P501)

Section 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Distinction of Substance
or Mixture

Mixture

Chemical Name or Generic Name	Concentration or Its Ranges	Formula	ENCS No./ISHL No.		CAS RN
			ENCS No.	ISHL No.	
Carbon black (C.I.Pigment Black 7)	4.62%		(5)- 3328,(5)- 5222	Existing	1333-86-4
Titanium dioxide (C.I.Pigment White 6)	5.27%	TiO ₂	(1)- 558,(5)- 5225	Existing	13463-67-7
Ethanol	1.48%	CH ₃ CH ₂ O H	(2)-202	Existing	64-17-5
Isopropanol	.74%	CH ₃ CH(O H)CH ₃	(2)-207	2-(8)-319	67-63-0
Ethylene glycol	2.78%	HOCH ₂ CH 2OH	(2)-230	Existing	107-21-1

Impurities and/or
Stabilizing Additives which
Contribute to the

No information available

Section 4 – FIRST AID MEASURES

Inhalation

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

Skin Contact

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

Eye Contact

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

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

Section 5 – FIRE FIGHTING MEASURES

Extinguishing Media Dry chemicals, CO2, water spray or regular foam.

Section 6 – ACCIDENTAL RELEASE MEASURES

Environmental Precautions Pay attention not to cause the influence on the environment by discharging into rivers.
This product is water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.
Methods and Equipment for Containment and Cleaning up Vacuum or sweep up material and place in a disposal container.

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 contact with eyes.
Avoid swallowing.
Protect from high temperature and direct sunlight.

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

Storage Precautionary Statements Specific Hygiene Measures Wash hand thoroughly after handling.
Conditions for Safe Storage The storage facility should be provided with necessary lighting, lighting equipment, and ventilator to store and handle dangerous goods. Refer to "Section 10 – STABILITY AND REACTIVITY".

Material Used in Packaging/Containers Have containers keep away from direct sunlight and heat.
Keep away from heat.
Store locked up.
Packaging materials and containers are not legislated, but use sturdy and closed-type containers.

Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls Good general ventilation should be sufficient to control airborne levels.

Personal Protective Equipment Respiratory Protection Use personal respiratory equipment as required.

Hand Protection	Use personal gloves as required.
Eye Protection	Use personal eye protection as required.
Skin and Body Protection	Use personal protective clothing and face protection as required.

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

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

Section 10 – STABILITY AND REACTIVITY

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

Section 11 – TOXICOLOGICAL INFORMATION

Acute Toxicity	No information available
Skin Corrosion/Irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory or Skin Sensitization	No data available
Germ Cell Mutagenicity	No data available
Carcinogenicity	No data available
Reproductive Toxicity	No data available
Specific target organ toxicity (single exposure)	No data available
Specific target organ toxicity (repeated exposure)	No data available

Aspiration Hazard No data available

Section 12 – ECOLOGICAL INFORMATION

Hazardous to the aquatic environment (acute) No data available

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

Hazardous to the ozone layer No data available

Section 13 – DISPOSAL CONSIDERATIONS

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

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

Contaminated Container and Packaging

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

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

Section 14 – TRANSPORT INFORMATION

International Regulations Regulatory Information by Sea Not applicable

Marine Pollutant Not applicable

Transport in bulk according to Not applicable

MARPOL 73/78, Annex II, and the IBC code

Regulatory Information by Air Not applicable

Regulations in Japan

Regulatory Information by Road Not applicable

Information by Road or Rail

Regulatory Information by Sea Not applicable

Marine Pollutant Not applicable

Transport in bulk according to Not applicable

MARPOL 73/78, Annex II, and the IBC code

Regulatory Information by Air Not applicable

Emergency Response Guide Number

Not applicable

Section 15 – REGULATORY INFORMATION

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

Section 16 – OTHER INFORMATION

Information Contact

No information available

Other Property

This information is furnished without warranty express or implied.

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

Safety Data Sheet (SDS)

Preparation Date 2014/12/24

Revision Date 2017/10/18

Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier WPF11-B
 Product Code WPF11B0001
 Company Name PENTEL CO., LTD.
 Address 7-2,KOAMICHO,NIHONBASHI,CHUO-KU,TOKYO
 Company Contact QUALITY ASSURANCE DEPARTMENT I
 Phone Number 03-5695-7210
 Fax Number 03-5645-8204
 Mail Address hinpo@pentel.co.jp
 Emergency Phone Number 03-5695-7210
 Recommended Use ink
 and Restriction on Use
 SMW26-B.SMW56-B

Section 2 – HAZARDS IDENTIFICATION

GHS Classification

Health Hazards Serious eye damage/eye irritation Category 2B
 Germ cell mutagenicity Category 1B
 Carcinogenicity Category 2
 Reproductive toxicity Category 1A
 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,central
 nervous system)
 Other hazards than mentioned above are Not
 applicable or Classification not possible.

GHS Label Elements

Symbols



Signal Word Danger
 Hazard Statements H320 Causes eye irritation
 H340 May cause genetic defects
 H351 Suspected of causing cancer
 H360 May damage 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,central nervous system through
 prolonged or repeated exposure
 Precautionary
 Statements
 Prevention Obtain special instructions before use.(P201)
 Precautionary
 Statements Do not handle until all safety precautions have
 been read and understood.(P202)

	Do not breathe mist, vapours and spray.(P260) Wash hand thoroughly after handling.(P264) Wash eye thoroughly after handling.(P264) Do not eat, drink or smoke when using this product.(P270) Wear protective gloves.(P280)
Response Precautionary Statements	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.(P305+P351+P338) IF exposed or concerned: Get medical advice and attention.(P308+P313) Get medical advice and attention if you feel unwell.(P314) If eye irritation persists: Get medical advice and attention.(P337+P313)
Storage Precautionary Statements	Store locked up.(P405)
Disposal Precautionary Statements	Dispose of contents and container in accordance with local, regional and national regulations (to be specified).(P501)

Section 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Distinction of Substance
or Mixture

Mixture

Chemical Name or Generic Name	Concentration or Its Ranges	Formula	ENCS No./ISHL No.		CAS RN
			ENCS No.	ISHL No.	
Titanium dioxide (C.I.Pigment White 6)	5.27%	TiO ₂	(1)- 558,(5)- 5225	Existing	13463-67-7
Ethanol	1.48%	CH ₃ CH ₂ O H	(2)-202	Existing	64-17-5
Isopropanol	.74%	CH ₃ CH(O H)CH ₃	(2)-207	2-(8)-319	67-63-0
Ethylene glycol	2.78%	HOCH ₂ CH 2OH	(2)-230	Existing	107-21-1

Impurities and/or
Stabilizing Additives which
Contribute to the

No information available

Section 4 – FIRST AID MEASURES

Inhalation

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

Skin Contact

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

Eye Contact

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

Ingestion

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

Section 5 – FIRE FIGHTING MEASURES

Extinguishing Media

Dry chemicals, CO2, water spray or regular foam.

Section 6 – ACCIDENTAL RELEASE MEASURES

Environmental
Precautions

Pay attention not to cause the influence on the environment by discharging into rivers.
This product is water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.
Vacuum or sweep up material and place in a disposal container.

Methods and Equipment
for Containment and
Cleaning up

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

Prevention Measures for
Secondary Accidents

Prevent flowing into drain, sewage, basement, and closed area.
Remove thoroughly since the smooth and slippery surface will be formed on the floor.

Section 7 – HANDLING AND STORAGE

Handling

Technical Measures

Provide ventilation system and use necessary personal protective equipment as described in "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION".

Precautions for Safe
Handling

Avoid contact with eyes.

Wash hand thoroughly after handling.
Avoid swallowing.

Protect from high temperature and direct sunlight.

Prevents Handling of
Incompatible
Substances or
Mixtures

Refer to "Section 10 – STABILITY AND REACTIVITY".

Specific Hygiene
Measures

Wash hand thoroughly after handling.

Storage Precautionary
Statements

Conditions for Safe
Storage

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

Have containers keep away from direct sunlight and heat.

Keep away from heat.

Store locked up.

Material Used in
Packaging/Container
s

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

Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

Good general ventilation should be sufficient to control airborne levels.

Personal Protective
Equipment

Respiratory
Protection

Use personal respiratory equipment as required.

Hand Protection
Eye Protection

Use personal gloves as required.

Use personal eye protection as required.

Skin and Body
Protection

Use personal protective clothing and face
protection as required.

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

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

Section 10 – STABILITY AND REACTIVITY

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

Section 11 – TOXICOLOGICAL INFORMATION

Acute Toxicity	No information available
Skin Corrosion/Irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory or Skin Sensitization	No data available
Germ Cell Mutagenicity	No data available
Carcinogenicity	No data available
Reproductive Toxicity	No data available
Specific target organ toxicity (single exposure)	No data available
Specific target organ toxicity (repeated exposure)	No data available
Aspiration Hazard	No data available

Section 12 – ECOLOGICAL INFORMATION

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

Section 13 – DISPOSAL CONSIDERATIONS

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

Section 14 – TRANSPORT INFORMATION

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

Section 15 – REGULATORY INFORMATION

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

Section 16 – OTHER INFORMATION

Information Contact	No information available
Other Property	This information is furnished without warranty express or implied.

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

Safety Data Sheet (SDS)

Preparation Date 2014/12/24

Revision Date 2017/10/18

Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier	WPF11-C
Product Code	WPF11C0001
Company Name	PENTEL CO., LTD.
Address	7-2,KOAMICHO,NIHONBASHI,CHUO-KU,TOKYO
Company Contact	QUALITY ASSURANCE DEPARTMENT I
Phone Number	03-5695-7210
Fax Number	03-5645-8204
Mail Address	hinpo@pentel.co.jp
Emergency Phone Number	03-5695-7210
Recommended Use and Restriction on Use	ink SMW26-C.SMW56-C

Section 2 – HAZARDS IDENTIFICATION

GHS Classification

Health Hazards	Serious eye damage/eye irritation Category 2B Germ cell mutagenicity Category 1B Carcinogenicity Category 2 Reproductive toxicity Category 1A 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,central nervous system) Other hazards than mentioned above are Not applicable or Classification not possible.
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GHS Label Elements

Symbols



Signal Word	Danger
Hazard Statements	H320 Causes eye irritation H340 May cause genetic defects H351 Suspected of causing cancer H360 May damage 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,central nervous system through prolonged or repeated exposure
Precautionary Statements	
Prevention	Obtain special instructions before use.(P201)
Precautionary Statements	
	Do not handle until all safety precautions have been read and understood.(P202)

	Do not breathe mist, vapours and spray.(P260) Wash hand thoroughly after handling.(P264) Wash eye thoroughly after handling.(P264) Do not eat, drink or smoke when using this product.(P270) Wear protective gloves.(P280)
Response Precautionary Statements	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.(P305+P351+P338) IF exposed or concerned: Get medical advice and attention.(P308+P313) Get medical advice and attention if you feel unwell.(P314) If eye irritation persists: Get medical advice and attention.(P337+P313)
Storage Precautionary Statements	Store locked up.(P405)
Disposal Precautionary Statements	Dispose of contents and container in accordance with local, regional and national regulations (to be specified).(P501)

Section 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Distinction of Substance
or Mixture

Mixture

Chemical Name or Generic Name	Concentration or Its Ranges	Formula	ENCs No./ISHL No.		CAS RN
			ENCs No.	ISHL No.	
Pigment blue 15	0.97%		(5)- 3299,(5)- 3300,(5)- 5216	Existing	147-14-8
Titanium dioxide (C.I.Pigment White 6)	11.91%	TiO ₂	(1)- 558,(5)- 5225	Existing	13463-67-7
Ethanol	1.48%	CH ₃ CH ₂ O H	(2)-202	Existing	64-17-5
Isopropanol	0.74%	CH ₃ CH(O H)CH ₃	(2)-207	2-(8)-319	67-63-0
Ethylene glycol	2.78%	HOCH ₂ CH 2OH	(2)-230	Existing	107-21-1

Impurities and/or
Stabilizing Additives which
Contribute to the

No information available

Section 4 – FIRST AID MEASURES

Inhalation

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

Skin Contact

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

Eye Contact

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

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
 Extinguishing Media

Dry chemicals, CO2, water spray or regular foam.

Section 6 – ACCIDENTAL RELEASE MEASURES
 Environmental Precautions

Pay attention not to cause the influence on the environment by discharging into rivers.
 This product is water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.
 Vacuum or sweep up material and place in a disposal container.

Methods and Equipment for Containment and Cleaning up

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

Prevention Measures for Secondary Accidents

Prevent flowing into drain, sewage, basement, and closed area.
 Remove thoroughly since the smooth and slippery surface will be formed on the floor.

Section 7 – HANDLING AND STORAGE

Handling

Technical Measures

Provide ventilation system and use necessary personal protective equipment as described in "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION".

Precautions for Safe Handling

Avoid contact with eyes.

Wash hand thoroughly after handling.

Avoid swallowing.

Protect from high temperature and direct sunlight.

Prevents Handling of Incompatible Substances or Mixtures
 Specific Hygiene Measures

Refer to "Section 10 – STABILITY AND REACTIVITY".

Wash hand thoroughly after handling.

Storage Precautionary Statements

Conditions for Safe Storage

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

Have containers keep away from direct sunlight and heat.

Keep away from heat.

Store locked up.

Material Used in Packaging/Containers

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

Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

Good general ventilation should be sufficient to control airborne levels.

Personal Protective Equipment	Respiratory Protection	Use personal respiratory equipment as required.
	Hand Protection	Use personal gloves as required.
	Eye Protection	Use personal eye protection as required.
	Skin and Body Protection	Use personal protective clothing and face protection as required.

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

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

Section 10 – STABILITY AND REACTIVITY

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

Section 11 – TOXICOLOGICAL INFORMATION

Acute Toxicity	No information available
Skin Corrosion/Irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory or Skin Sensitization	No data available
Germ Cell Mutagenicity	No data available
Carcinogenicity	No data available
Reproductive Toxicity	No data available
Specific target organ toxicity (single exposure)	No data available

Specific target organ toxicity (repeated exposure)	No data available
Aspiration Hazard	No data available

Section 12 – ECOLOGICAL INFORMATION

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

Section 13 – DISPOSAL CONSIDERATIONS

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

Section 14 – TRANSPORT INFORMATION

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

Section 15 – REGULATORY INFORMATION

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

Section 16 – OTHER INFORMATION

Information Contact
Other Property

No information available

This information is furnished without warranty
express or implied.

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

Safety Data Sheet (SDS)

Preparation Date 2014/12/24

Revision Date 2017/10/18

Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier	WPF11-D
Product Code	WPF11D0001
Company Name	PENTEL CO., LTD.
Address	7-2,KOAMICHO,NIHONBASHI,CHUO-KU,TOKYO
Company Contact	QUALITY ASSURANCE DEPARTMENT I
Phone Number	03-5695-7210
Fax Number	03-5645-8204
Mail Address	hinpo@pentel.co.jp
Emergency Phone Number	03-5695-7210
Recommended Use and Restriction on Use	ink SMW26-D.SMW56-D

Section 2 – HAZARDS IDENTIFICATION

GHS Classification

Health Hazards	Serious eye damage/eye irritation Category 2B Germ cell mutagenicity Category 1B Carcinogenicity Category 2 Reproductive toxicity Category 1A 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,central nervous system) Other hazards than mentioned above are Not applicable or Classification not possible.
----------------	--

GHS Label Elements

Symbols



Signal Word	Danger
Hazard Statements	H320 Causes eye irritation H340 May cause genetic defects H351 Suspected of causing cancer H360 May damage 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,central nervous system through prolonged or repeated exposure
Precautionary Statements	
Prevention	Obtain special instructions before use.(P201)
Precautionary Statements	
	Do not handle until all safety precautions have been read and understood.(P202)

	Do not breathe mist, vapours and spray.(P260) Wash hand thoroughly after handling.(P264) Wash eye thoroughly after handling.(P264) Do not eat, drink or smoke when using this product.(P270) Wear protective gloves.(P280)
Response Precautionary Statements	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.(P305+P351+P338) IF exposed or concerned: Get medical advice and attention.(P308+P313) Get medical advice and attention if you feel unwell.(P314) If eye irritation persists: Get medical advice and attention.(P337+P313)
Storage Precautionary Statements	Store locked up.(P405)
Disposal Precautionary Statements	Dispose of contents and container in accordance with local, regional and national regulations (to be specified).(P501)

Section 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Distinction of Substance
or Mixture

Mixture

Chemical Name or Generic Name	Concentration or Its Ranges	Formula	ENCS No./ISHL No.		CAS RN
			ENCS No.	ISHL No.	
Pigment green 7	1.44%		(5)-3315	Existing	1328-53-6
Titanium dioxide (C.I.Pigment White 6)	5.27%	TiO ₂	(1)- 558,(5)- 5225	Existing	13463-67-7
Ethanol	1.48%	CH ₃ CH ₂ O H	(2)-202	Existing	64-17-5
Isopropanol	.74%	CH ₃ CH(O H)CH ₃	(2)-207	2-(8)-319	67-63-0
Ethylene glycol	2.78%	HOCH ₂ CH 2OH	(2)-230	Existing	107-21-1

Impurities and/or
Stabilizing Additives which
Contribute to the

No information available

Section 4 – FIRST AID MEASURES

Inhalation

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

Skin Contact

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

Eye Contact

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

Ingestion

Rinse mouth. Do NOT induce vomiting.

Get medical advice and attention if you feel unwell.

Section 5 – FIRE FIGHTING MEASURES

Extinguishing Media

Dry chemicals, CO2, water spray or regular foam.

Section 6 – ACCIDENTAL RELEASE MEASURES

Environmental
Precautions

Pay attention not to cause the influence on the environment by discharging into rivers. This product is water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container.

Methods and Equipment
for Containment and
Cleaning up

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

Avoid contact with eyes.

Wash hand thoroughly after handling.
Avoid swallowing.

Protect from high temperature and direct sunlight.

Prevents Handling of
Incompatible
Substances or
Mixtures

Refer to "Section 10 – STABILITY AND REACTIVITY".

Specific Hygiene
Measures

Wash hand thoroughly after handling.

Storage Precautionary
Statements

Conditions for Safe
Storage

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

Have containers keep away from direct sunlight and heat.

Keep away from heat.

Store locked up.

Material Used in
Packaging/Container
s

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

Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

Good general ventilation should be sufficient to control airborne levels.

Personal Protective
Equipment

Respiratory
Protection

Use personal respiratory equipment as required.

Hand Protection
Eye Protection

Use personal gloves as required.

Use personal eye protection as required.

Skin and Body
Protection

Use personal protective clothing and face
protection as required.

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

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

Section 10 – STABILITY AND REACTIVITY

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

Section 11 – TOXICOLOGICAL INFORMATION

Acute Toxicity	No information available
Skin Corrosion/Irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory or Skin Sensitization	No data available
Germ Cell Mutagenicity	No data available
Carcinogenicity	No data available
Reproductive Toxicity	No data available
Specific target organ toxicity (single exposure)	No data available
Specific target organ toxicity (repeated exposure)	No data available
Aspiration Hazard	No data available

Section 12 – ECOLOGICAL INFORMATION

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

Section 13 – DISPOSAL CONSIDERATIONS

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

Section 14 – TRANSPORT INFORMATION

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

Section 15 – REGULATORY INFORMATION

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

Section 16 – OTHER INFORMATION

Information Contact	No information available
Other Property	This information is furnished without warranty express or implied.

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

Safety Data Sheet (SDS)

Preparation Date 2014/12/24

Revision Date 2017/10/18

Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier WPF11-F
 Product Code WPF11F0001
 Company Name PENTEL CO., LTD.
 Address 7-2,KOAMICHO,NIHONBASHI,CHUO-KU,TOKYO
 Company Contact QUALITY ASSURANCE DEPARTMENT I
 Phone Number 03-5695-7210
 Fax Number 03-5645-8204
 Mail Address hinpo@pentel.co.jp
 Emergency Phone Number 03-5695-7210
 Recommended Use ink
 and Restriction on Use
 SMW26-F.SMW56-F

Section 2 – HAZARDS IDENTIFICATION

GHS Classification

Health Hazards Serious eye damage/eye irritation Category 2B
 Germ cell mutagenicity Category 1B
 Carcinogenicity Category 2
 Reproductive toxicity Category 1A
 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,central
 nervous system)
 Other hazards than mentioned above are Not
 applicable or Classification not possible.

GHS Label Elements

Symbols



Signal Word Danger
 Hazard Statements H320 Causes eye irritation
 H340 May cause genetic defects
 H351 Suspected of causing cancer
 H360 May damage 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,central nervous system through
 prolonged or repeated exposure
 Precautionary
 Statements
 Prevention Obtain special instructions before use.(P201)
 Precautionary
 Statements Do not handle until all safety precautions have
 been read and understood.(P202)

	Do not breathe mist, vapours and spray.(P260) Wash hand thoroughly after handling.(P264) Wash eye thoroughly after handling.(P264) Do not eat, drink or smoke when using this product.(P270) Wear protective gloves.(P280)
Response Precautionary Statements	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.(P305+P351+P338) IF exposed or concerned: Get medical advice and attention.(P308+P313) Get medical advice and attention if you feel unwell.(P314) If eye irritation persists: Get medical advice and attention.(P337+P313)
Storage Precautionary Statements	Store locked up.(P405)
Disposal Precautionary Statements	Dispose of contents and container in accordance with local, regional and national regulations (to be specified).(P501)

Section 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Distinction of Substance
or Mixture

Mixture

Chemical Name or Generic Name	Concentration or Its Ranges	Formula	ENCS No./ISHL No.		CAS RN
			ENCS No.	ISHL No.	
Titanium dioxide (C.I.Pigment White 6)	5.27%	TiO ₂	(1)- 558,(5)- 5225	Existing	13463-67-7
Ethanol	1.48%	CH ₃ CH ₂ O H	(2)-202	Existing	64-17-5
Isopropanol	.74%	CH ₃ CH(O H)CH ₃	(2)-207	2-(8)-319	67-63-0
Ethylene glycol	2.78%	HOCH ₂ CH 2OH	(2)-230	Existing	107-21-1

Impurities and/or
Stabilizing Additives which
Contribute to the

No information available

Section 4 – FIRST AID MEASURES

Inhalation

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

Skin Contact

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

Eye Contact

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

Ingestion

Rinse mouth. Do NOT induce vomiting.

Get medical advice and attention if you feel unwell.

Section 5 – FIRE FIGHTING MEASURES

Extinguishing Media

Dry chemicals, CO2, water spray or regular foam.

Section 6 – ACCIDENTAL RELEASE MEASURES

Environmental
Precautions

Pay attention not to cause the influence on the environment by discharging into rivers. This product is water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water. Vacuum or sweep up material and place in a disposal container.

Methods and Equipment
for Containment and
Cleaning up

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

Prevention Measures for
Secondary Accidents

Prevent flowing into drain, sewage, basement, and closed area. Remove thoroughly since the smooth and slippery surface will be formed on the floor.

Section 7 – HANDLING AND STORAGE

Handling

Technical Measures

Provide ventilation system and use necessary personal protective equipment as described in "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION".

Precautions for Safe
Handling

Do not contact, breathe or swallow.

Avoid contact with eyes.

Wash hand thoroughly after handling.

Avoid swallowing.

Protect from high temperature and direct sunlight.

Prevents Handling of
Incompatible
Substances or
Mixtures

Refer to "Section 10 – STABILITY AND REACTIVITY".

Specific Hygiene
Measures

Wash hand thoroughly after handling.

Storage Precautionary
Statements

Conditions for Safe
Storage

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

Have containers keep away from direct sunlight and heat.

Keep away from heat.

Store locked up.

Material Used in
Packaging/Container
s

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

Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

Workplace storing or handling this product should be equipped with eyewashing station and safety shower.

		Install ventilation system to keep exposure to airborne contaminants below the exposure limit if vapor, fume, mist generates in the process handling at elevated temperature.
		Install ventilation system to keep exposure to airborne contaminants below the exposure limit if gas generates in the process handling at elevated temperature.
		Install ventilation system if vapor, fume, mist generates in the process handling at elevated temperature.
		Install ventilation system if gas generates in the process handling at elevated temperature.
		Good general ventilation should be sufficient to control airborne levels.
Personal Protective Equipment	Respiratory Protection	Use personal respiratory equipment as required.
	Hand Protection	Use personal gloves as required.
	Eye Protection	Use personal eye protection as required.
	Skin and Body Protection	Use personal protective clothing and face protection as required.

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

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

Section 10 – STABILITY AND REACTIVITY

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

Hazardous Decomposition Products	No data available
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Section 11 – TOXICOLOGICAL INFORMATION

Acute Toxicity	No information available
Skin Corrosion/Irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory or Skin Sensitization	No data available
Germ Cell Mutagenicity	No data available
Carcinogenicity	No data available
Reproductive Toxicity	No data available
Specific target organ toxicity (single exposure)	No data available
Specific target organ toxicity (repeated exposure)	No data available
Aspiration Hazard	No data available

Section 12 – ECOLOGICAL INFORMATION

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

Section 13 – DISPOSAL CONSIDERATIONS

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

Section 14 – TRANSPORT INFORMATION

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

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

Section 15 – REGULATORY INFORMATION

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

Section 16 – OTHER INFORMATION

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

Safety Data Sheet (SDS)

Preparation Date 2014/12/24

Revision Date 2017/10/18

Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier WPF11-G
 Product Code WPF11G0001
 Company Name PENTEL CO., LTD.
 Address 7-2,KOAMICHO,NIHONBASHI,CHUO-KU,TOKYO
 Company Contact QUALITY ASSURANCE DEPARTMENT I
 Phone Number 03-5695-7210
 Fax Number 03-5645-8204
 Mail Address hinpo@pentel.co.jp
 Emergency Phone Number 03-5695-7210
 Recommended Use ink
 and Restriction on Use
 SMW26-G.SMW56-G

Section 2 – HAZARDS IDENTIFICATION

GHS Classification

Health Hazards Serious eye damage/eye irritation Category 2B
 Germ cell mutagenicity Category 1B
 Carcinogenicity Category 2
 Reproductive toxicity Category 1A
 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,central
 nervous system)
 Other hazards than mentioned above are Not
 applicable or Classification not possible.

GHS Label Elements

Symbols



Signal Word Danger
 Hazard Statements H320 Causes eye irritation
 H340 May cause genetic defects
 H351 Suspected of causing cancer
 H360 May damage 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,central nervous system through
 prolonged or repeated exposure
 Precautionary
 Statements
 Prevention Obtain special instructions before use.(P201)
 Precautionary
 Statements Do not handle until all safety precautions have
 been read and understood.(P202)

Response Precautionary Statements	Do not breathe mist, vapours and spray.(P260) Wash hand thoroughly after handling.(P264) Wash eye thoroughly after handling.(P264) Do not eat, drink or smoke when using this product.(P270) Wear protective gloves.(P280) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.(P305+P351+P338) IF exposed or concerned: Get medical advice and attention.(P308+P313) Get medical advice and attention if you feel unwell.(P314) If eye irritation persists: Get medical advice and attention.(P337+P313)
Storage Precautionary Statements	Store locked up.(P405)
Disposal Precautionary Statements	Dispose of contents and container in accordance with local, regional and national regulations (to be specified).(P501)

Section 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Distinction of Substance
or Mixture

Mixture

Chemical Name or Generic Name	Concentration or Its Ranges	Formula	ENCs No./ISHL No.		CAS RN
			ENCs No.	ISHL No.	
Titanium dioxide (C.I.Pigment White 6)	5.27%	TiO ₂	(1)- 558,(5)- 5225	Existing	13463-67-7
Ethanol	1.48%	CH ₃ CH ₂ O H	(2)-202	Existing	64-17-5
Isopropanol	.74%	CH ₃ CH(O H)CH ₃	(2)-207	2-(8)-319	67-63-0
Ethylene glycol	2.78%	HOCH ₂ CH 2OH	(2)-230	Existing	107-21-1

Impurities and/or
Stabilizing Additives which
Contribute to the

No information available

Section 4 – FIRST AID MEASURES

Inhalation

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

Skin Contact

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

Eye Contact

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

Ingestion

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

Section 5 – FIRE FIGHTING MEASURES

Extinguishing Media

Dry chemicals, CO2, water spray or regular foam.

Section 6 – ACCIDENTAL RELEASE MEASURES

Environmental
Precautions

Pay attention not to cause the influence on the environment by discharging into rivers.
This product is water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.
Vacuum or sweep up material and place in a disposal container.

Methods and Equipment
for Containment and
Cleaning up

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

Prevention Measures for
Secondary Accidents

Prevent flowing into drain, sewage, basement, and closed area.
Remove thoroughly since the smooth and slippery surface will be formed on the floor.

Section 7 – HANDLING AND STORAGE

Handling

Technical Measures

Provide ventilation system and use necessary personal protective equipment as described in "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION".

Precautions for Safe
Handling

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe mist, vapours and spray.
Ventilate the exhaust to keep the concentration in the air below the exposure limit.
Use exhaust ventilation.
Do not contact, breathe or swallow.
Avoid contact with eyes.
Wash hand thoroughly after handling.
Avoid swallowing.
Protect from high temperature and direct sunlight.

Prevents Handling of
Incompatible
Substances or
Mixtures
Specific Hygiene
Measures

Refer to "Section 10 – STABILITY AND REACTIVITY".

Storage Precautionary
StatementsConditions for Safe
Storage

Wash hand thoroughly after handling.
The storage facility should be provided with necessary lighting, lighting equipment, and ventilator to store and handle dangerous goods.
Refer to "Section 10 – STABILITY AND REACTIVITY".
Have containers keep away from direct sunlight and heat.
Keep away from heat.
Store locked up.
Packaging materials and containers are not legislated, but use sturdy and closed-type containers.

Material Used in
Packaging/Container
s

Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls		<p>Workplace storing or handling this product should be equipped with eyewashing station and safety shower.</p> <p>Install ventilation system to keep exposure to airborne contaminants below the exposure limit if vapor, fume, mist generates in the process handling at elevated temperature.</p> <p>Install ventilation system to keep exposure to airborne contaminants below the exposure limit if gas generates in the process handling at elevated temperature.</p> <p>Install ventilation system if vapor, fume, mist generates in the process handling at elevated temperature.</p> <p>Install ventilation system if gas generates in the process handling at elevated temperature.</p> <p>Good general ventilation should be sufficient to control airborne levels.</p>
Personal Protective Equipment	Respiratory Protection	<p>Use personal respiratory equipment as required.</p> <p>Wear an adequate protective apparatus for respiratory organs.</p>
	Hand Protection	<p>Use necessary personal protective equipment.</p> <p>Use personal gloves as required.</p>
	Eye Protection	<p>Use personal gloves as required.</p> <p>Wear eye protection.</p> <p>Protection glasses (ordinary glasses, ordinary glasses with side shields, and goggles).</p> <p>Use personal eye protection as required.</p>
	Skin and Body Protection	<p>Use personal protective clothing and face protection as required.</p> <p>Use personal face protection as required.</p>

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

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

Viscosity	No data available
Kinematic viscosity	No data available

Section 10 – STABILITY AND REACTIVITY

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

Section 11 – TOXICOLOGICAL INFORMATION

Acute Toxicity	No information available
Skin Corrosion/Irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory or Skin Sensitization	No data available
Germ Cell Mutagenicity	No data available
Carcinogenicity	No data available
Reproductive Toxicity	No data available
Specific target organ toxicity (single exposure)	No data available
Specific target organ toxicity (repeated exposure)	No data available
Aspiration Hazard	No data available

Section 12 – ECOLOGICAL INFORMATION

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

Section 13 – DISPOSAL CONSIDERATIONS

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

Section 14 – TRANSPORT INFORMATION

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

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

Section 15 – REGULATORY INFORMATION

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

Section 16 – OTHER INFORMATION

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

Safety Data Sheet (SDS)

Preparation Date 2014/12/24

Revision Date 2017/10/18

Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier	WPF11-V
Product Code	WPF11V0001
Company Name	PENTEL CO., LTD.
Address	7-2,KOAMICHO,NIHONBASHI,CHUO-KU,TOKYO
Company Contact	QUALITY ASSURANCE DEPARTMENT I
Phone Number	03-5695-7210
Fax Number	03-5645-8204
Mail Address	hinpo@pentel.co.jp
Emergency Phone Number	03-5695-7210
Recommended Use and Restriction on Use	ink SMW26-V.SMW56-V

Section 2 – HAZARDS IDENTIFICATION

GHS Classification

Health Hazards	Serious eye damage/eye irritation Category 2B Germ cell mutagenicity Category 1B Carcinogenicity Category 2 Reproductive toxicity Category 1A 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,central nervous system) Other hazards than mentioned above are Not applicable or Classification not possible.
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GHS Label Elements

Symbols



Signal Word	Danger
Hazard Statements	H320 Causes eye irritation H340 May cause genetic defects H351 Suspected of causing cancer H360 May damage 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,central nervous system through prolonged or repeated exposure
Precautionary Statements	
Prevention	Obtain special instructions before use.(P201)
Precautionary Statements	
	Do not handle until all safety precautions have been read and understood.(P202)

Response Precautionary Statements	Do not breathe mist, vapours and spray.(P260) Wash hand thoroughly after handling.(P264) Wash eye thoroughly after handling.(P264) Do not eat, drink or smoke when using this product.(P270) Wear protective gloves.(P280) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.(P305+P351+P338) IF exposed or concerned: Get medical advice and attention.(P308+P313) Get medical advice and attention if you feel unwell.(P314) If eye irritation persists: Get medical advice and attention.(P337+P313)
Storage Precautionary Statements	Store locked up.(P405)
Disposal Precautionary Statements	Dispose of contents and container in accordance with local, regional and national regulations (to be specified).(P501)

Section 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Distinction of Substance
or Mixture

Mixture

Chemical Name or Generic Name	Concentration or Its Ranges	Formula	ENCS No./ISHL No.		CAS RN
			ENCS No.	ISHL No.	
Titanium dioxide (C.I.Pigment White 6)	5.27%	TiO ₂	(1)- 558,(5)- 5225	Existing	13463-67-7
Ethanol	1.48%	CH ₃ CH ₂ O H	(2)-202	Existing	64-17-5
Isopropanol	.74%	CH ₃ CH(O H)CH ₃	(2)-207	2-(8)-319	67-63-0
Ethylene glycol	2.78%	HOCH ₂ CH 2OH	(2)-230	Existing	107-21-1

Impurities and/or
Stabilizing Additives which
Contribute to the

No information available

Section 4 – FIRST AID MEASURES

Inhalation

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

Skin Contact

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

Eye Contact

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

Ingestion

Get medical advice and attention.
Rinse mouth. Do NOT induce vomiting.

Get medical advice and attention if you feel unwell.

Section 5 – FIRE FIGHTING MEASURES

Extinguishing Media

Dry chemicals, CO2, water spray or regular foam.

Section 6 – ACCIDENTAL RELEASE MEASURES

Environmental
Precautions

Pay attention not to cause the influence on the environment by discharging into rivers. This product is water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water. Vacuum or sweep up material and place in a disposal container.

Methods and Equipment
for Containment and
Cleaning up

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

Prevention Measures for
Secondary Accidents

Prevent flowing into drain, sewage, basement, and closed area. Remove thoroughly since the smooth and slippery surface will be formed on the floor.

Section 7 – HANDLING AND STORAGE

Handling

Technical Measures

Provide ventilation system and use necessary personal protective equipment as described in "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION".

Precautions for Safe
Handling

Avoid contact with eyes.

Wash hand thoroughly after handling.
Avoid swallowing.

Protect from high temperature and direct sunlight.

Prevents Handling of
Incompatible
Substances or
Mixtures
Specific Hygiene
Measures

Refer to "Section 10 – STABILITY AND REACTIVITY".

Wash hand thoroughly after handling.

Storage Precautionary
Statements

Conditions for Safe
Storage

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

Have containers keep away from direct sunlight and heat.

Keep away from heat.

Store locked up.

Material Used in
Packaging/Container
s

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

Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

Good general ventilation should be sufficient to control airborne levels.

Personal Protective
Equipment

Respiratory
Protection

Use personal respiratory equipment as required.

		Wear an adequate protective apparatus for respiratory organs.
		Use necessary personal protective equipment.
Hand Protection		Use personal gloves as required.
		Use personal gloves as required.
Eye Protection		Wear eye protection.
		Protection glasses (ordinary glasses, ordinary glasses with side shields, and goggles).
		Use personal eye protection as required.
Skin and Body Protection		Use personal protective clothing and face protection as required.
		Use personal face protection as required.

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

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

Section 10 – STABILITY AND REACTIVITY

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

Section 11 – TOXICOLOGICAL INFORMATION

Acute Toxicity		No information available
Skin Corrosion/Irritation		No data available
Serious eye damage/eye irritation		No data available
Respiratory or Skin Sensitization		No data available

Germ Cell Mutagenicity	No data available
Carcinogenicity	No data available
Reproductive Toxicity	No data available
Specific target organ toxicity (single exposure)	No data available
Specific target organ toxicity (repeated exposure)	No data available
Aspiration Hazard	No data available

Section 12 – ECOLOGICAL INFORMATION

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

Section 13 – DISPOSAL CONSIDERATIONS

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

Section 14 – TRANSPORT INFORMATION

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

Section 15 – REGULATORY INFORMATION

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

Section 16 – OTHER INFORMATION

Information Contact

Other Property

No information available

This information is furnished without warranty express or implied.

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

Safety Data Sheet (SDS)

Preparation Date 2014/12/24

Revision Date 2017/10/18

Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier	WPF11-W
Product Code	WPF11W0001
Company Name	PENTEL CO., LTD.
Address	7-2,KOAMICHO,NIHONBASHI,CHUO-KU,TOKYO
Company Contact	QUALITY ASSURANCE DEPARTMENT I
Phone Number	03-5695-7210
Fax Number	03-5645-8204
Mail Address	hinpo@pentel.co.jp
Emergency Phone Number	03-5695-7210
Recommended Use and Restriction on Use	ink SMW26-W,SMW56-W

Section 2 – HAZARDS IDENTIFICATION

GHS Classification

Health Hazards	Serious eye damage/eye irritation Category 2B Germ cell mutagenicity Category 1B Carcinogenicity Category 2 Reproductive toxicity Category 1A 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,central nervous system) Other hazards than mentioned above are Not applicable or Classification not possible.
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GHS Label Elements

Symbols



Signal Word	Danger
Hazard Statements	H320 Causes eye irritation H340 May cause genetic defects H351 Suspected of causing cancer H360 May damage 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,central nervous system through prolonged or repeated exposure
Precautionary Statements	
Prevention	Obtain special instructions before use.(P201)
Precautionary Statements	Do not handle until all safety precautions have been read and understood.(P202)

Get medical advice and attention if you feel unwell.

Section 5 – FIRE FIGHTING MEASURES

Extinguishing Media

Dry chemicals, CO2, water spray or regular foam.

Section 6 – ACCIDENTAL RELEASE MEASURES

Environmental
Precautions

Pay attention not to cause the influence on the environment by discharging into rivers. This product is water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water. Vacuum or sweep up material and place in a disposal container.

Methods and Equipment
for Containment and
Cleaning up

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

Prevention Measures for
Secondary Accidents

Prevent flowing into drain, sewage, basement, and closed area. Remove thoroughly since the smooth and slippery surface will be formed on the floor.

Section 7 – HANDLING AND STORAGE

Handling

Technical Measures

Provide ventilation system and use necessary personal protective equipment as described in "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION".

Precautions for Safe
Handling

Avoid contact with eyes.

Wash hand thoroughly after handling.
Avoid swallowing.

Protect from high temperature and direct sunlight.

Prevents Handling of
Incompatible
Substances or
Mixtures
Specific Hygiene
Measures

Refer to "Section 10 – STABILITY AND REACTIVITY".

Wash hand thoroughly after handling.

Storage Precautionary
Statements

Conditions for Safe
Storage

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

Have containers keep away from direct sunlight and heat.

Keep away from heat.

Store locked up.

Material Used in
Packaging/Container
s

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

Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

Good general ventilation should be sufficient to control airborne levels.

Personal Protective
Equipment

Respiratory
Protection

Use personal respiratory equipment as required.

Hand Protection

Use personal gloves as required.

Eye Protection	Use personal eye protection as required.
Skin and Body Protection	Use personal protective clothing and face protection as required.

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

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

Section 10 – STABILITY AND REACTIVITY

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

Section 11 – TOXICOLOGICAL INFORMATION

Acute Toxicity	No information available
Skin Corrosion/Irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory or Skin Sensitization	No data available
Germ Cell Mutagenicity	No data available
Carcinogenicity	No data available
Reproductive Toxicity	No data available
Specific target organ toxicity (single exposure)	No data available
Specific target organ toxicity (repeated exposure)	No data available
Aspiration Hazard	No data available

Section 12 – ECOLOGICAL INFORMATION

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

Section 13 – DISPOSAL CONSIDERATIONS

Residual Waste	Disposal should be in accordance with applicable regulations and standards by the respective local governments. Commission a waste disposal company, or a local public body who are licensed by local or regional government, to dispose of the material.
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	Regulatory Information by Air	Not applicable
Regulations in Japan	Regulatory Information by Road or Rail	Not applicable
	Regulatory Information by Sea	Not applicable
	Marine Pollutant Transport in bulk according to MARPOL 73/78, Annex II, and the IBC code	Not applicable Not applicable
	Regulatory Information by Air	Not applicable
Emergency Response Guide Number		Not applicable

Section 15 – REGULATORY INFORMATION

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Information Contact	No information available
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