

Safety Data Sheet (SDS)

Preparation Date 2012/10/29

Revision Date 2016/01/12

Section 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name WPB20-15
 Product Code WPB2015001
 Company Name PENTEL CO., LTD.
 Address 7-2,KOAMICHO,NIHONBASHI,CHUO-KU,TOKYO
 Company Contact QUALITY ASSURANCE DEPARTMENT I
 Phone Number 048-928-6668
 Emergency Phone Number 048-928-6668
 Fax Number 048-928-9190
 Mail Address hinpo@pentel.co.jp
 Recommended Use and Restriction on Use ink

K118-MB, BG208-MB, WPB9-MB

Section 2 – HAZARDS IDENTIFICATION

GHS Classification

Health Hazards Acute toxicity – inhalation(vapour) Category 4
 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(central nervous system,respiratory apparatus,heart)
 Specific target organ toxicity(repeated exposure) Category 2(lung)
 Other hazards than mentioned above are Not applicable or No data available.

GHS Label Elements
Symbols

Signal Word Danger
 Hazard Statements H320 Causes eye irritation
 H332 Harmful if inhaled
 H370 Causes damage to respiratory apparatus,heart,kidney,central nervous system.
 H372 Causes damage to respiratory apparatus,heart,central nervous system through prolonged or repeated exposure.
 H373 May cause damage to lung through prolonged or repeated exposure.

Precautional
Statements
Prevention
Precautionary
Statements

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

Wash hands thoroughly after handling.(P264)
Wash eye thoroughly after handling.(P264)

Response
Precautionary
Statements

Do not eat, drink or smoke when using this product.(P270)
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.(P305+P351+P338)
Get medical advice and attention if you feel unwell.(P314)
If eye irritation persists: Get medical advice and attention.(P337+P313)
Store locked up.(P405)

Storage
Precautionary
Statements

Disposal
Precautionary
Statements

Dispose of contents and container in accordance with local, regional and national regulations (to be specified).(P501)

Section 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Distinction of Substance or Mixture
mixture

Chemical Name or Generic Name	Concentration or Its Ranges	Formula	ENCs No./ISHL No.		CAS RN
			ENCs No.	ISHL No.	
Ethylene glycol	41.3%	HOCH ₂ CH ₂ OH	(2)-230	Existing	107-21-1
Glycerol	5.15%	CH ₂ OHCH(OH)C H ₂ OH	(2)-242,(7)-338	Existing	56-81-5
1-methoxy-2-Propanol	1.46%		(2)-404 (7)-97	Existing	107-98-2

Impurities and/or Stabilizing Additives which Contribute to the

No information available

Section 4 – FIRST AID MEASURES

Inhalation

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

Skin Contact

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

Eye Contact

Wash eyes carefully for several minutes with water. Take off contact lenses if easily removed, and continue to wash eyes afterwards.
When the ocular stimulation lasts, Seek medical treatment and advice.

Ingestion

Rinse a mouth. Don't make vomit by force.
Get medical advice and attention if you feel unwell.

Section 5 – FIRE FIGHTING MEASURES

Extinguishing Media

Carbon dioxide, dry chemicals, water sprinkling, and general foam extinguishing agents

Section 6 – ACCIDENTAL RELEASE MEASURES

<p>Personal Precautions, Protective Equipment and Emergency Procedures</p>	<p>Wear appropriate personal protective equipment (Refer to "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION") and avoid inhalation or contact with eyes and skin.</p>
<p>Environmental Precautions</p>	<p>This product is water pollutant. Prevent soil contamination, or the product from flowing into the drain systems.</p>
<p>Decontamination/Absorption/ Sweeping/Vacuuming/ Neutralization</p>	<p>Collect the material into a disposal container by sucking up or sweeping up.</p> <p>Absorb spills with inert materials (such as dry sand or soil) and collect them into chemical-waste disposal container.</p> <p>Remove from water surface by skimming, or absorbing with an adequate absorbent.</p> <p>Cleansing the contaminated area thoroughly with water after removal.</p>
<p>Methods and Equipment for Containment and Cleaning up Prevention Measures for Secondary Accidents</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>

Section 7 – HANDLING AND STORAGE

<p>Handling</p>	<p>Technical Measures</p>	<p>Provide ventilation system and Use necessary personal protective equipment as described in "8. EXPOSURE CONTROLS AND PERSONAL PROTECTION."</p>
	<p>Local and General Ventilation</p>	<p>Provide local ventilations and a full ventilation system as described in "8. EXPOSURE CONTROLS AND PERSONAL PROTECTION."</p>
	<p>Precautions for Safe Handling</p>	<p>Do not eat, drink or smoke when using this product.</p> <p>Wash hands thoroughly after handling.</p> <p>Avoid swallowing</p> <p>Avoid the contact with the skin.</p> <p>Do not breathe gas.</p> <p>Do not breathe mist, vapours and spray.</p> <p>Carry out ventilation of the exhaust.</p> <p>Wash hands after handling.</p> <p>Avoid the contact with eyes.</p> <p>Avoid release to the environment.</p>
	<p>Prevents Handling of Incompatible Substances or Mixtures</p>	<p>Refer to "10. STABILITY AND REACTIVITY"</p>
<p>Storage Precautionary Statements</p>	<p>Technical Measures</p>	<p>The storage facility should be provided with necessary lighting, lighting equipment, and ventilator to store and handle dangerous goods.</p>
	<p>Incompatible Substances or Mixtures</p>	<p>Refer to "10. STABILITY AND REACTIVITY"</p>
	<p>Storage Conditions</p>	<p>Have containers keep away from direct sunlight and heat.</p> <p>Keep away from heat.</p>
	<p>Material Used in Packaging/Container s</p>	<p>Packaging materials and containers are not legislated, but use sturdy and closed-type containers.</p>

Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls		A general proper ventilation is enough to control concentration in air.
Personal Protective Equipment	Respiratory Protection	Use a personal protective apparatus for respiratory organs whenever necessary.
	Hand Protection	Use necessary personal protective gloves.
	Eye Protection	Use a personal eye protector whenever necessary.
	Skin and Body Protection	Use the personal protective clothing and full face mask whenever necessary.
Specific Hygiene Measures		Wash hands thoroughly after handling.
Section 9 – PHYSICAL AND CHEMICAL PROPERTIES		
Appearance	Physical State	liquid
	Colour	Metallic Red
	Odour	slight odor
	pH	No data available
Initial Boiling Point and Boiling Ranges		No information available
Flash Point		no data available
Auto-Ignition		No information available
Section 10 – STABILITY AND REACTIVITY		
Stability		The material is stable under storage and handling conditions comprised with the regulations.
Possibility of Hazardous Reaction		No data available
Conditions to Avoid		No data available
Hazardous Decomposition Products		No data available
Section 11 – TOXICOLOGICAL INFORMATION		
Acute Toxicity		No information available
Section 12 – ECOLOGICAL INFORMATION		
	Environmental Hazards	No information available
Ecotoxicity		No information available
Section 13 – DISPOSAL CONSIDERATIONS		
Residual Waste		For disposal, conform with the standards provided by related laws and local public bodies. Commission the authorized waste disposal company, or a local public body who conducts the disposal, 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
	UN No.	Not applicable
	Marine Pollutant	Not applicable
	Regulatory Information by Air	Not applicable
	UN No.	Not applicable
Regulations in Japan	Regulatory Information by Road or Rail	Not applicable

Regulatory Information by Sea	Not applicable
UN No.	Not applicable
Marine Pollutant	Not applicable
Regulatory Information by Air	Not applicable
UN No.	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 2012/11/19

Revision Date 2016/01/12

Section 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name WPB20-22
 Product Code WPB2022001
 Company Name PENTEL CO., LTD.
 Address 7-2,KOAMICHO,NIHONBASHI,CHUO-KU,TOKYO
 Company Contact QUALITY ASSURANCE DEPARTMENT I
 Phone Number 048-928-6668
 Emergency Phone Number 048-928-6668
 Fax Number 048-928-9190
 Mail Address hinpo@pentel.co.jp
 Recommended Use and Restriction on Use ink

K118-MC, BG208-MC, WPB9-MC

Section 2 – HAZARDS IDENTIFICATION

GHS Classification

Health Hazards Acute toxicity – inhalation(vapour) Category 4
 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(central nervous system,respiratory apparatus,heart)
 Specific target organ toxicity(repeated exposure) Category 2(lung)
 Other hazards than mentioned above are Not applicable or No data available.

GHS Label Elements
Symbols

Signal Word Danger
 Hazard Statements H320 Causes eye irritation
 H332 Harmful if inhaled
 H370 Causes damage to respiratory apparatus,heart,kidney,central nervous system.
 H372 Causes damage to respiratory apparatus,heart,central nervous system through prolonged or repeated exposure.
 H373 May cause damage to lung through prolonged or repeated exposure.

Precautional
Statements

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

Precautionary
Statements

Wash hands thoroughly after handling.(P264)
 Wash eye thoroughly after handling.(P264)

Personal Precautions, Protective Equipment and Emergency Procedures	Wear appropriate personal protective equipment (Refer to "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION") and avoid inhalation or contact with eyes and skin.
Environmental Precautions	This product is water pollutant. Prevent soil contamination, or the product from flowing into the drain systems.
Decontamination/Absorption/ Sweeping/Vacuuming/ Neutralization	Collect the material into a disposal container by sucking up or sweeping up. Absorb spills with inert materials (such as dry sand or soil) and collect them into chemical-waste disposal container. Remove from water surface by skimming, or absorbing with an adequate absorbent. Cleansing the contaminated area thoroughly with water after removal.
Methods and Equipment for Containment and Cleaning up 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 "8. EXPOSURE CONTROLS AND PERSONAL PROTECTION."
	Local and General Ventilation	Provide local ventilations and a full ventilation system as described in "8. EXPOSURE CONTROLS AND PERSONAL PROTECTION."
Storage Precautionary Statements	Precautions for Safe Handling	Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Avoid swallowing Avoid the contact with the skin. Do not breathe gas. Do not breathe mist, vapours and spray. Carry out ventilation of the exhaust. Wash hands after handling. Avoid the contact with eyes. Avoid release to the environment.
	Prevents Handling of Incompatible Substances or Mixtures	Refer to "10. STABILITY AND REACTIVITY"
	Technical Measures	The storage facility should be provided with necessary lighting, lighting equipment, and ventilator to store and handle dangerous goods. Refer to "10. STABILITY AND REACTIVITY"
	Incompatible Substances or Mixtures	
	Storage Conditions	Have containers keep away from direct sunlight and heat. Keep away from heat.
	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		A general proper ventilation is enough to control concentration in air.
Personal Protective Equipment	Respiratory Protection	Use a personal protective apparatus for respiratory organs whenever necessary.
	Hand Protection	Use necessary personal protective gloves.
	Eye Protection	Use a personal eye protector whenever necessary.
	Skin and Body Protection	Use the personal protective clothing and full face mask whenever necessary.
Specific Hygiene Measures		Wash hands thoroughly after handling.
Section 9 – PHYSICAL AND CHEMICAL PROPERTIES		
Appearance	Physical State	liquid
	Colour	Metallic Blue
	Odour	slight odor
	pH	No data available
Initial Boiling Point and Boiling Ranges		No information available
Flash Point		no data available
Auto-Ignition		No information available
Section 10 – STABILITY AND REACTIVITY		
Stability		The material is stable under storage and handling conditions comprised with the regulations.
Possibility of Hazardous Reaction		No data available
Conditions to Avoid		No data available
Hazardous Decomposition Products		No data available
Section 11 – TOXICOLOGICAL INFORMATION		
Acute Toxicity		No information available
Section 12 – ECOLOGICAL INFORMATION		
	Environmental Hazards	No information available
Ecotoxicity		No information available
Section 13 – DISPOSAL CONSIDERATIONS		
Residual Waste		For disposal, conform with the standards provided by related laws and local public bodies. Commission the authorized waste disposal company, or a local public body who conducts the disposal, 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
	UN No.	Not applicable
	Marine Pollutant	Not applicable
	Regulatory Information by Air	Not applicable
	UN No.	Not applicable
Regulations in Japan	Regulatory Information by Road or Rail	Not applicable

Regulatory Information by Sea	Not applicable
UN No.	Not applicable
Marine Pollutant	Not applicable
Regulatory Information by Air	Not applicable
UN No.	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
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Safety Data Sheet (SDS)

Preparation Date 2012/11/19

Revision Date 2016/01/12

Section 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name WPB20-21
 Product Code WPB2021001
 Company Name PENTEL CO., LTD.
 Address 7-2,KOAMICHO,NIHONBASHI,CHUO-KU,TOKYO
 Company Contact QUALITY ASSURANCE DEPARTMENT I
 Phone Number 048-928-6668
 Emergency Phone Number 048-928-6668
 Fax Number 048-928-9190
 Mail Address hinpo@pentel.co.jp
 Recommended Use and Restriction on Use ink

K118-MD, BG208-MD, WPB9-MD

Section 2 – HAZARDS IDENTIFICATION

GHS Classification

Health Hazards Acute toxicity – inhalation(vapour) Category 4
 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(central nervous system,respiratory apparatus,heart)
 Specific target organ toxicity(repeated exposure)
 Category 2(lung)
 Other hazards than mentioned above are Not applicable or No data available.

GHS Label Elements
Symbols

Signal Word Danger
 Hazard Statements H320 Causes eye irritation
 H332 Harmful if inhaled
 H370 Causes damage to respiratory apparatus,heart,kidney,central nervous system.
 H372 Causes damage to respiratory apparatus,heart,central nervous system through prolonged or repeated exposure.
 H373 May cause damage to lung through prolonged or repeated exposure.

Precautional
Statements
Prevention
Precautionary
Statements

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

Wash hands thoroughly after handling.(P264)
Wash eye thoroughly after handling.(P264)

Personal Precautions, Protective Equipment and Emergency Procedures	Wear appropriate personal protective equipment (Refer to "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION") and avoid inhalation or contact with eyes and skin.
Environmental Precautions	This product is water pollutant. Prevent soil contamination, or the product from flowing into the drain systems.
Decontamination/Absorption/Sweeping/Vacuuming/Neutralization	Collect the material into a disposal container by sucking up or sweeping up. Absorb spills with inert materials (such as dry sand or soil) and collect them into chemical-waste disposal container. Remove from water surface by skimming, or absorbing with an adequate absorbent. Cleansing the contaminated area thoroughly with water after removal.
Methods and Equipment for Containment and Cleaning up 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 "8. EXPOSURE CONTROLS AND PERSONAL PROTECTION."
	Local and General Ventilation	Provide local ventilations and a full ventilation system as described in "8. EXPOSURE CONTROLS AND PERSONAL PROTECTION."
Storage Precautionary Statements	Precautions for Safe Handling	Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Avoid swallowing Avoid the contact with the skin. Do not breathe gas. Do not breathe mist, vapours and spray. Carry out ventilation of the exhaust. Wash hands after handling. Avoid the contact with eyes. Avoid release to the environment.
	Prevents Handling of Incompatible Substances or Mixtures	Refer to "10. STABILITY AND REACTIVITY"
	Technical Measures	The storage facility should be provided with necessary lighting, lighting equipment, and ventilator to store and handle dangerous goods. Refer to "10. STABILITY AND REACTIVITY"
	Incompatible Substances or Mixtures	
	Storage Conditions	Have containers keep away from direct sunlight and heat. Keep away from heat.
	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		A general proper ventilation is enough to control concentration in air.
Personal Protective Equipment	Respiratory Protection	Use a personal protective apparatus for respiratory organs whenever necessary.
	Hand Protection	Use necessary personal protective gloves.
	Eye Protection	Use a personal eye protector whenever necessary.
	Skin and Body Protection	Use the personal protective clothing and full face mask whenever necessary.
Specific Hygiene Measures		Wash hands thoroughly after handling.
Section 9 – PHYSICAL AND CHEMICAL PROPERTIES		
Appearance	Physical State	liquid
	Colour	Metallic Green
	Odour	slight odor
	pH	No data available
Initial Boiling Point and Boiling Ranges		No information available
Flash Point		no data available
Auto-Ignition		No information available
Section 10 – STABILITY AND REACTIVITY		
Stability		The material is stable under storage and handling conditions comprised with the regulations.
Possibility of Hazardous Reaction		No data available
Conditions to Avoid		No data available
Hazardous Decomposition Products		No data available
Section 11 – TOXICOLOGICAL INFORMATION		
Acute Toxicity		No information available
Section 12 – ECOLOGICAL INFORMATION		
	Environmental Hazards	No information available
Ecotoxicity		No information available
Section 13 – DISPOSAL CONSIDERATIONS		
Residual Waste		For disposal, conform with the standards provided by related laws and local public bodies. Commission the authorized waste disposal company, or a local public body who conducts the disposal, 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
	UN No.	Not applicable
	Marine Pollutant	Not applicable
	Regulatory Information by Air	Not applicable
	UN No.	Not applicable
Regulations in Japan	Regulatory Information by Road or Rail	Not applicable

Regulatory Information by Sea	Not applicable
UN No.	Not applicable
Marine Pollutant	Not applicable
Regulatory Information by Air	Not applicable
UN No.	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
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This information is believed to be accurate to the best knowledge of PENTEL Co., Ltd. but not assumes leagal responsibility for use of or reliance upon this information.

Safety Data Sheet (SDS)

Preparation Date 2012/11/19

Revision Date 2016/01/12

Section 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name WPB20-25
 Product Code WPB2025001
 Company Name PENTEL CO., LTD.
 Address 7-2,KOAMICHO,NIHONBASHI,CHUO-KU,TOKYO
 Company Contact QUALITY ASSURANCE DEPARTMENT I
 Phone Number 048-928-6668
 Emergency Phone Number 048-928-6668
 Fax Number 048-928-9190
 Mail Address hinpo@pentel.co.jp
 Recommended Use and Restriction on Use ink

K118-ME, BG208-ME, WPB9-ME

Section 2 – HAZARDS IDENTIFICATION

GHS Classification

Health Hazards Acute toxicity – inhalation(vapour) Category 4
 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(central nervous system,respiratory apparatus,heart)
 Specific target organ toxicity(repeated exposure)
 Category 2(lung)
 Other hazards than mentioned above are Not applicable or No data available.

GHS Label Elements
Symbols

Signal Word Danger
 Hazard Statements H320 Causes eye irritation
 H332 Harmful if inhaled
 H370 Causes damage to respiratory apparatus,heart,kidney,central nervous system.
 H372 Causes damage to respiratory apparatus,heart,central nervous system through prolonged or repeated exposure.
 H373 May cause damage to lung through prolonged or repeated exposure.

Precautional
Statements

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

Precautionary
Statements

Wash hands thoroughly after handling.(P264)
 Wash eye thoroughly after handling.(P264)

Personal Precautions, Protective Equipment and Emergency Procedures	Wear appropriate personal protective equipment (Refer to "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION") and avoid inhalation or contact with eyes and skin.
Environmental Precautions	This product is water pollutant. Prevent soil contamination, or the product from flowing into the drain systems.
Decontamination/Absorption/Sweeping/Vacuuming/Neutralization	Collect the material into a disposal container by sucking up or sweeping up. Absorb spills with inert materials (such as dry sand or soil) and collect them into chemical-waste disposal container. Remove from water surface by skimming, or absorbing with an adequate absorbent. Cleansing the contaminated area thoroughly with water after removal.
Methods and Equipment for Containment and Cleaning up 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 "8. EXPOSURE CONTROLS AND PERSONAL PROTECTION."
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Storage Precautionary Statements	Precautions for Safe Handling	Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Avoid swallowing Avoid the contact with the skin. Do not breathe gas. Do not breathe mist, vapours and spray. Carry out ventilation of the exhaust. Wash hands after handling. Avoid the contact with eyes. Avoid release to the environment.
	Prevents Handling of Incompatible Substances or Mixtures	Refer to "10. STABILITY AND REACTIVITY"
	Technical Measures	The storage facility should be provided with necessary lighting, lighting equipment, and ventilator to store and handle dangerous goods. Refer to "10. STABILITY AND REACTIVITY"
	Incompatible Substances or Mixtures	
	Storage Conditions	Have containers keep away from direct sunlight and heat. Keep away from heat.
	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		A general proper ventilation is enough to control concentration in air.
Personal Protective Equipment	Respiratory Protection	Use a personal protective apparatus for respiratory organs whenever necessary.
	Hand Protection	Use necessary personal protective gloves.
	Eye Protection	Use a personal eye protector whenever necessary.
	Skin and Body Protection	Use the personal protective clothing and full face mask whenever necessary.
Specific Hygiene Measures		Wash hands thoroughly after handling.
Section 9 – PHYSICAL AND CHEMICAL PROPERTIES		
Appearance	Physical State	liquid
	Colour	Bronze
	Odour	slight odor
	pH	No data available
Initial Boiling Point and Boiling Ranges		No information available
Flash Point		no data available
Auto-Ignition		No information available
Section 10 – STABILITY AND REACTIVITY		
Stability		The material is stable under storage and handling conditions comprised with the regulations.
Possibility of Hazardous Reaction		No data available
Conditions to Avoid		No data available
Hazardous Decomposition Products		No data available
Section 11 – TOXICOLOGICAL INFORMATION		
Acute Toxicity		No information available
Section 12 – ECOLOGICAL INFORMATION		
	Environmental Hazards	No information available
Ecotoxicity		No information available
Section 13 – DISPOSAL CONSIDERATIONS		
Residual Waste		For disposal, conform with the standards provided by related laws and local public bodies. Commission the authorized waste disposal company, or a local public body who conducts the disposal, 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
	UN No.	Not applicable
	Marine Pollutant	Not applicable
	Regulatory Information by Air	Not applicable
	UN No.	Not applicable
Regulations in Japan	Regulatory Information by Road or Rail	Not applicable

Regulatory Information by Sea	Not applicable
UN No.	Not applicable
Marine Pollutant	Not applicable
Regulatory Information by Air	Not applicable
UN No.	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
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This information is believed to be accurate to the best knowledge of PENTEL Co., Ltd. but not assumes leagal responsibility for use of or reliance upon this information.

Safety Data Sheet (SDS)

Preparation Date 2012/11/19

Revision Date 2016/01/12

Section 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name	WPB20-24
Product Code	WPB2024001
Company Name	PENTEL CO., LTD.
Address	7-2,KOAMICHO,NIHONBASHI,CHUO-KU,TOKYO
Company Contact	QUALITY ASSURANCE DEPARTMENT I
Phone Number	048-928-6668
Emergency Phone Number	048-928-6668
Fax Number	048-928-9190
Mail Address	hinpo@pentel.co.jp
Recommended Use and Restriction on Use	ink K118-MP, BG208-MP, K230-MP, KFR10-MP, WPB9-MP

Section 2 – HAZARDS IDENTIFICATION

GHS Classification

Health Hazards	Acute toxicity – inhalation(vapour) Category 4 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(central nervous system,respiratory apparatus,heart) Specific target organ toxicity(repeated exposure) Category 2(lung) Other hazards than mentioned above are Not applicable or No data available.
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GHS Label Elements
Symbols

Signal Word	Danger
Hazard Statements	H320 Causes eye irritation H332 Harmful if inhaled H370 Causes damage to respiratory apparatus,heart,kidney,central nervous system. H372 Causes damage to respiratory apparatus,heart,central nervous system through prolonged or repeated exposure. H373 May cause damage to lung through prolonged or repeated exposure.

Precautional
Statements

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

	Wash hands thoroughly after handling.(P264) Wash eye thoroughly after handling.(P264)
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Response
Precautionary
Statements

Do not eat, drink or smoke when using this product.(P270)
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.(P305+P351+P338)
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.	
Ethylene glycol	40%	HOCH ₂ CH ₂ OH	(2)-230	Existing	107-21-1
Glycerol	5%	CH ₂ OHCH(OH)C H ₂ OH	(2)-242 (7)-338	Existing	56-81-5
1-methoxy-2-propanol	1.46%		(2)-404 (7)-97	Existing	107-98-2

Impurities and/or Stabilizing Additives which Contribute to the Classification
No information available

Section 4 – FIRST AID MEASURES

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

Skin Contact
Wash with soap and plenty of water.
If skin irritation or rash occurs: Get medical advice and attention.

Eye Contact
Wash eyes carefully for several minutes with water. Take off contact lenses if easily removed, and continue to wash eyes afterwards.
When the ocular stimulation lasts, Seek medical treatment and advice.

Ingestion
Rinse a mouth. Don't make vomit by force.
Get medical advice and attention if you feel unwell.

Section 5 – FIRE FIGHTING MEASURES

Extinguishing Media
Carbon dioxide, dry chemicals, water sprinkling, and general foam extinguishing agents

Section 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures	Wear appropriate personal protective equipment (Refer to "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION") and avoid inhalation or contact with eyes and skin.
Environmental Precautions	This product is water pollutant. Prevent soil contamination, or the product from flowing into the drain systems.
Decontamination/Absorption/Sweeping/Vacuuming/Neutralization	Collect the material into a disposal container by sucking up or sweeping up. Absorb spills with inert materials (such as dry sand or soil) and collect them into chemical-waste disposal container. Remove from water surface by skimming, or absorbing with an adequate absorbent. Cleansing the contaminated area thoroughly with water after removal.
Methods and Equipment for Containment and Cleaning up 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 "8. EXPOSURE CONTROLS AND PERSONAL PROTECTION."
	Local and General Ventilation	Provide local ventilations and a full ventilation system as described in "8. EXPOSURE CONTROLS AND PERSONAL PROTECTION."
Storage Precautionary Statements	Precautions for Safe Handling	Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Avoid swallowing Avoid the contact with the skin. Do not breathe gas. Do not breathe mist, vapours and spray. Carry out ventilation of the exhaust. Wash hands after handling. Avoid the contact with eyes. Avoid release to the environment.
	Prevents Handling of Incompatible Substances or Mixtures	Refer to "10. STABILITY AND REACTIVITY"
	Technical Measures	The storage facility should be provided with necessary lighting, lighting equipment, and ventilator to store and handle dangerous goods. Refer to "10. STABILITY AND REACTIVITY"
	Incompatible Substances or Mixtures	
	Storage Conditions	Have containers keep away from direct sunlight and heat. Keep away from heat.
	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		A general proper ventilation is enough to control concentration in air.
Personal Protective Equipment	Respiratory Protection	Use a personal protective apparatus for respiratory organs whenever necessary.
	Hand Protection	Use necessary personal protective gloves.
	Eye Protection	Use a personal eye protector whenever necessary.
	Skin and Body Protection	Use the personal protective clothing and full face mask whenever necessary.
Specific Hygiene Measures		Wash hands thoroughly after handling.
Section 9 – PHYSICAL AND CHEMICAL PROPERTIES		
Appearance	Physical State	liquid
	Colour	Metallic Pink
	Odour	slight odor
	pH	No data available
Initial Boiling Point and Boiling Ranges		No information available
Flash Point		no data available
Auto-Ignition		No information available
Section 10 – STABILITY AND REACTIVITY		
Stability		The material is stable under storage and handling conditions comprised with the regulations.
Possibility of Hazardous Reaction		No data available
Conditions to Avoid		No data available
Hazardous Decomposition Products		No data available
Section 11 – TOXICOLOGICAL INFORMATION		
Acute Toxicity		No information available
Section 12 – ECOLOGICAL INFORMATION		
	Environmental Hazards	No information available
Ecotoxicity		No information available
Section 13 – DISPOSAL CONSIDERATIONS		
Residual Waste		For disposal, conform with the standards provided by related laws and local public bodies. Commission the authorized waste disposal company, or a local public body who conducts the disposal, 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
	UN No.	Not applicable
	Marine Pollutant	Not applicable
	Regulatory Information by Air	Not applicable
	UN No.	Not applicable
Regulations in Japan	Regulatory Information by Road or Rail	Not applicable

Regulatory Information by Sea	Not applicable
UN No.	Not applicable
Marine Pollutant	Not applicable
Regulatory Information by Air	Not applicable
UN No.	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 2012/11/19

Revision Date 2016/01/12

Section 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name WPB20-23
 Product Code WPB2023001
 Company Name PENTEL CO., LTD.
 Address 7-2,KOAMICHO,NIHONBASHI,CHUO-KU,TOKYO
 Company Contact QUALITY ASSURANCE DEPARTMENT I
 Phone Number 048-928-6668
 Emergency Phone 048-928-6668
 Number
 Fax Number 048-928-9190
 Mail Address hinpo@pentel.co.jp
 Recommended Use ink
 and Restriction on Use
 K118-MV, BG208-MV, K230-MV, KFR10-MV,
 WPB9-MV

Section 2 – HAZARDS IDENTIFICATION

GHS Classification

Health Hazards Acute toxicity – inhalation(vapour) Category 4
 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(central nervous system,respiratory
 apparatus,heart)
 Specific target organ toxicity(repeated exposure)
 Category 2(lung)
 Other hazards than mentioned above are Not
 applicable or No data available.

GHS Label Elements
Symbols

Signal Word Danger
 Hazard Statements H320 Causes eye irritation
 H332 Harmful if inhaled
 H370 Causes damage to respiratory
 apparatus,heart,kidney,central nervous system.
 H372 Causes damage to respiratory
 apparatus,heart,central nervous system through
 prolonged or repeated exposure.
 H373 May cause damage to lung through prolonged
 or repeated exposure.

Precautional
 Statements
 Prevention Do not breathe mist, vapours and spray.(P260)
 Precautionary
 Statements Wash hands thoroughly after handling.(P264)
 Wash eye thoroughly after handling.(P264)

Personal Precautions, Protective Equipment and Emergency Procedures	Wear appropriate personal protective equipment (Refer to "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION") and avoid inhalation or contact with eyes and skin.
Environmental Precautions	This product is water pollutant. Prevent soil contamination, or the product from flowing into the drain systems.
Decontamination/Absorption/ Sweeping/Vacuuming/ Neutralization	Collect the material into a disposal container by sucking up or sweeping up. Absorb spills with inert materials (such as dry sand or soil) and collect them into chemical-waste disposal container. Remove from water surface by skimming, or absorbing with an adequate absorbent. Cleansing the contaminated area thoroughly with water after removal.
Methods and Equipment for Containment and Cleaning up 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 "8. EXPOSURE CONTROLS AND PERSONAL PROTECTION."
	Local and General Ventilation	Provide local ventilations and a full ventilation system as described in "8. EXPOSURE CONTROLS AND PERSONAL PROTECTION."
Storage Precautionary Statements	Precautions for Safe Handling	Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Avoid swallowing Avoid the contact with the skin. Do not breathe gas. Do not breathe mist, vapours and spray. Carry out ventilation of the exhaust. Wash hands after handling. Avoid the contact with eyes. Avoid release to the environment.
	Prevents Handling of Incompatible Substances or Mixtures	Refer to "10. STABILITY AND REACTIVITY"
	Technical Measures	The storage facility should be provided with necessary lighting, lighting equipment, and ventilator to store and handle dangerous goods. Refer to "10. STABILITY AND REACTIVITY"
	Incompatible Substances or Mixtures	
	Storage Conditions	Have containers keep away from direct sunlight and heat. Keep away from heat.
	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		A general proper ventilation is enough to control concentration in air.
Personal Protective Equipment	Respiratory Protection	Use a personal protective apparatus for respiratory organs whenever necessary.
	Hand Protection	Use necessary personal protective gloves.
	Eye Protection	Use a personal eye protector whenever necessary.
	Skin and Body Protection	Use the personal protective clothing and full face mask whenever necessary.
Specific Hygiene Measures		Wash hands thoroughly after handling.
Section 9 – PHYSICAL AND CHEMICAL PROPERTIES		
Appearance	Physical State	liquid
	Colour	Metallic Violet
	Odour	slight odor
	pH	No data available
Initial Boiling Point and Boiling Ranges		No information available
Flash Point		no data available
Auto-Ignition		No information available
Section 10 – STABILITY AND REACTIVITY		
Stability		The material is stable under storage and handling conditions comprised with the regulations.
Possibility of Hazardous Reaction		No data available
Conditions to Avoid		No data available
Hazardous Decomposition Products		No data available
Section 11 – TOXICOLOGICAL INFORMATION		
Acute Toxicity		No information available
Section 12 – ECOLOGICAL INFORMATION		
Ecotoxicity	Environmental Hazards	No information available
		No information available
Section 13 – DISPOSAL CONSIDERATIONS		
Residual Waste		For disposal, conform with the standards provided by related laws and local public bodies. Commission the authorized waste disposal company, or a local public body who conducts the disposal, 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
	UN No.	Not applicable
	Marine Pollutant	Not applicable
	Regulatory Information by Air	Not applicable
	UN No.	Not applicable
Regulations in Japan	Regulatory Information by Road or Rail	Not applicable

Regulatory Information by Sea	Not applicable
UN No.	Not applicable
Marine Pollutant	Not applicable
Regulatory Information by Air	Not applicable
UN No.	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 2015/07/21

Revision Date 2016/01/12

Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier WPB20-X
 Product Code WPB20X0002
 Company Name PENTEL CO., LTD.
 Address 7-2,KOAMICHO,NIHONBASHI,CHUO-KU,TOKYO
 Company Contact QUALITY ASSURANCE DEPARTMENT I
 Phone Number 048-928-6668
 Fax Number 048-928-9190
 Mail Address hinpo@pentel.co.jp
 Emergency Phone Number 048-928-6668
 Recommended Use ink
 and Restriction on Use

K108/K118/KF8/BG208/K230/KFR10-X

Section 2 – HAZARDS IDENTIFICATION

GHS Classification

Health Hazards Acute toxicity – inhalation (vapour) Category 4
 Serious eye damage/eye irritation Category 2B
 Specific target organ toxicity (single exposure)
 Category 2(respiratory apparatus,heart,kidney,central nervous system)
 Specific target organ toxicity (repeated exposure)
 Category 2(respiratory apparatus,heart,central nervous system,lung)
 Other hazards than mentioned above are Not applicable or No data available.

GHS Label Elements

Symbols



Signal Word Warning
 Hazard Statements H320 Causes eye irritation
 H332 Harmful if inhaled
 H371 May cause damage to respiratory apparatus,heart,kidney,central nervous system
 H373 May cause damage to respiratory apparatus,heart,central nervous system,lung through prolonged or repeated exposure

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

Avoid breathing mist, vapours and spray.(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
Precautionary
Statements

Use only outdoors or in a well-ventilated area.(P271)
IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.(P304+P340)
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.(P305+P351+P338)
IF exposed or concerned: Call a POISON CENTER/doctor/...(P308+P311)
Call a doctor if you feel unwell.(P312)
Get medical advice and attention if you feel unwell.(P314)
If eye irritation persists: Get medical advice and attention.(P337+P313)
Store locked up.(P405)

Storage
Precautionary
Statements

Disposal
Precautionary
Statements

Dispose of contents and container in accordance with local, regional and national regulations (to be specified).(P501)

Section 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Distinction of Substance or Mixture mixture

Chemical Name or Generic Name	Concentration or Its Ranges	Formula	ENCs No./ISHL No.		CAS RN
			ENCs No.	ISHL No.	
Ethylene glycol	7.5%	HOCH ₂ CH ₂ OH	(2)-230	Existing	107-21-1
Glycerol	7.5%	CH ₂ OHCH(OH)C H ₂ OH	(2)-242 (7)-338	Existing	56-81-5
1-methoxy-2-propanol	1.425%		(2)-404 (7)-97	Existing	107-98-2

Impurities and/or Stabilizing Additives which Contribute to the Classification No information available

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.

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 swallowing. Avoid contact with eyes. Protect from high temperature and direct sunlight.
	Prevents Handling of Incompatible Substances or Mixtures	Refer to "Section 10 – STABILITY AND REACTIVITY".
Storage Precautionary Statements	Specific Hygiene Measures	Wash hand thoroughly after handling.
	Technical Measures	Refer to "Section 10 – STABILITY AND REACTIVITY". Have containers keep away from direct sunlight and heat. Keep away from heat.

Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

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

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Physical State	liquid
	Form	liquid (viscous liquid)
	Colour	gold
Odour		slight odor
Odour threshold		No data available
pH		No data available
Melting Point/Freezing Point		No data available
Initial Boiling Point and Boiling Ranges		No data available
Flash Point		no data available
Evaporation Rate		No data available
Flammability (solid, gas)		No data available

Flammability or Explosive Limits	Lower Limit	No data available
	Upper Limit	No data available
Vapour Pressure		No data available
Vapour Density		No data available
Specific Gravity (Density)		No data available
Partition Coefficient : n-Octanol/Water		No data available
Auto-Ignition		No data available
Decomposition Temperature		No data available
Viscosity		No data available
Kinematic viscosity		No data available

Section 10 – STABILITY AND REACTIVITY

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

Section 11 – TOXICOLOGICAL INFORMATION

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

Section 12 – ECOLOGICAL INFORMATION

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

Section 13 – DISPOSAL CONSIDERATIONS

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

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

Section 14 – TRANSPORT INFORMATION

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

Section 15 – REGULATORY INFORMATION

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

Section 16 – OTHER INFORMATION

Information Contact	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 2012/11/19

Revision Date 2016/01/12

Section 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name WPB20-Z
 Product Code WPB20Z0001
 Company Name PENTEL CO., LTD.
 Address 7-2,KOAMICHO,NIHONBASHI,CHUO-KU,TOKYO
 Company Contact QUALITY ASSURANCE DEPARTMENT I
 Phone Number 048-928-6668
 Emergency Phone Number 048-928-6668
 Fax Number 048-928-9190
 Mail Address hinpo@pentel.co.jp
 Recommended Use and Restriction on Use ink

K108-Z, K118-Z, KF8-Z, BG208-Z, K230-Z,
 KFR10-Z, WPB7-Z

Section 2 – HAZARDS IDENTIFICATION

GHS Classification

Health Hazards Acute toxicity – inhalation(vapour) Category 4
 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(central nervous system,respiratory
 apparatus,heart)
 Specific target organ toxicity(repeated exposure)
 Category 2(lung)
 Other hazards than mentioned above are Not
 applicable or No data available.

GHS Label Elements
Symbols

Signal Word Danger
 Hazard Statements H320 Causes eye irritation
 H332 Harmful if inhaled
 H370 Causes damage to respiratory
 apparatus,heart,kidney,central nervous system.
 H372 Causes damage to respiratory
 apparatus,heart,central nervous system through
 prolonged or repeated exposure.
 H373 May cause damage to lung through prolonged
 or repeated exposure.

Precautional
Statements
Prevention
Precautionary
Statements

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

Wash hands thoroughly after handling.(P264)

Personal Precautions, Protective Equipment and Emergency Procedures	Wear appropriate personal protective equipment (Refer to "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION") and avoid inhalation or contact with eyes and skin.
Environmental Precautions	This product is water pollutant. Prevent soil contamination, or the product from flowing into the drain systems.
Decontamination/Absorption/Sweeping/Vacuuming/Neutralization	Collect the material into a disposal container by sucking up or sweeping up. Absorb spills with inert materials (such as dry sand or soil) and collect them into chemical-waste disposal container. Remove from water surface by skimming, or absorbing with an adequate absorbent. Cleansing the contaminated area thoroughly with water after removal.
Methods and Equipment for Containment and Cleaning up 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 "8. EXPOSURE CONTROLS AND PERSONAL PROTECTION."
	Local and General Ventilation	Provide local ventilations and a full ventilation system as described in "8. EXPOSURE CONTROLS AND PERSONAL PROTECTION."
Storage Precautionary Statements	Precautions for Safe Handling	Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Avoid swallowing Avoid the contact with the skin. Do not breathe gas. Do not breathe mist, vapours and spray. Carry out ventilation of the exhaust. Wash hands after handling. Avoid the contact with eyes. Avoid release to the environment.
	Prevents Handling of Incompatible Substances or Mixtures	Refer to "10. STABILITY AND REACTIVITY"
	Technical Measures	The storage facility should be provided with necessary lighting, lighting equipment, and ventilator to store and handle dangerous goods. Refer to "10. STABILITY AND REACTIVITY"
	Incompatible Substances or Mixtures	
	Storage Conditions	Have containers keep away from direct sunlight and heat. Keep away from heat.
	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		A general proper ventilation is enough to control concentration in air.
Personal Protective Equipment	Respiratory Protection	Use a personal protective apparatus for respiratory organs whenever necessary.
	Hand Protection	Use necessary personal protective gloves.
	Eye Protection	Use a personal eye protector whenever necessary.
	Skin and Body Protection	Use the personal protective clothing and full face mask whenever necessary.
Specific Hygiene Measures		Wash hands thoroughly after handling.
Section 9 – PHYSICAL AND CHEMICAL PROPERTIES		
Appearance	Physical State	liquid
	Colour	silver
	Odour	slight odor
	pH	No data available
Initial Boiling Point and Boiling Ranges		No information available
Flash Point		no data available
Auto-Ignition		No information available
Section 10 – STABILITY AND REACTIVITY		
Stability		The material is stable under storage and handling conditions comprised with the regulations.
Possibility of Hazardous Reaction		No data available
Conditions to Avoid		No data available
Hazardous Decomposition Products		No data available
Section 11 – TOXICOLOGICAL INFORMATION		
Acute Toxicity		No information available
Section 12 – ECOLOGICAL INFORMATION		
	Environmental Hazards	No information available
Ecotoxicity		No information available
Section 13 – DISPOSAL CONSIDERATIONS		
Residual Waste		For disposal, conform with the standards provided by related laws and local public bodies. Commission the authorized waste disposal company, or a local public body who conducts the disposal, 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
	UN No.	Not applicable
	Marine Pollutant	Not applicable
	Regulatory Information by Air	Not applicable
	UN No.	Not applicable
Regulations in Japan	Regulatory Information by Road or Rail	Not applicable

Regulatory Information by Sea	Not applicable
UN No.	Not applicable
Marine Pollutant	Not applicable
Regulatory Information by Air	Not applicable
UN No.	Not applicable

Section 15 – REGULATORY INFORMATION

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

Section 16 – OTHER INFORMATION

Information Contact
Other Property

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best knowledge of PENTEL Co., Ltd. but not
assumes leagal responsibility for use of or reliance
upon this information.