

Safety Data Sheet (SDS)

Preparation Date 2013/07/08
Revision Date 2016/06/08

Section 1 - CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identification WPB36-A
Product Code WPB36A0001
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

KF5, 6, 8, KFGN3, 4, 5, 8, KFLS5, 7, KFR5, 7,
KFRS5, 7, KFRN3, 5, 7, K437-A, K497-A

Section 2 - HAZARDS IDENTIFICATION

GHS Classification

Health Hazards Serious eye damage/eye irritation Category 2
Carcinogenicity Category 2
Specific target organ toxicity (single exposure) Category 1 (respiratory apparatus, heart, kidney, central nervous system)
Specific target organ toxicity (repeated exposure) Category 1 (respiratory apparatus, heart, central nervous system)
Specific target organ toxicity (repeated exposure) Category 2 (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
H351 Suspected of causing cancer
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

Precautionary Statements
Prevention
Precautionary Statements

Obtain special instructions before use. (P20)

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

Prevention Measures for
Secondary Accidents

Section 7 – HANDLING AND STORAGE

Handling

Technical Measures

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

Precautions for Safe
Handling

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".

Storage Precautionary
Statements

Technical Measures

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

Have containers keep away from direct sunlight and heat.

Keep away from heat.

Store locked up.

Material Used in
Packaging/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

Wear eye protection.

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
Flammability or Explosive Limits		

Section 10 – STABILITY AND REACTIVITY

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

Section 11 – TOXICOLOGICAL INFORMATION

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

Section 12 – ECOLOGICAL INFORMATION

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

Section 13 – DISPOSAL CONSIDERATIONS

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

Section 14 – TRANSPORT INFORMATION

International Regulations	Regulatory Information by Sea	Not applicable
	Marine Pollutant Transport in bulk according to MARPOL 73/78, Annex II, and the IBC code	Not applicable 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 Not applicable
Emergency Response Guide Number	Regulatory Information by Air	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 2013/06/04

Revision Date 2016/06/08

Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name WPB30-B
 Product Code WPB30B0001
 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

KF5, 6, 8, KFGN3, 4, 5, 8, KFLS5, 7, KFR5, 7,
 KFRS5, 7, KFRN3, 5, 7, KFRI7-B K437-B, K497-B

Section 2 - HAZARDS IDENTIFICATION

GHS Classification

Health Hazards Serious eye damage/eye irritation Category
 Specific target organ toxicity(single expos
 Category 1(respiratory
 apparatus, heart, kidney, central nervous syst
 Specific target organ toxicity(repeated exp
 Category 1(central nervous system, respirato
 apparatus, heart)
 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
 H370 Causes damage to respiratory
 apparatus, heart, kidney, central nervous syst
 H372 Causes damage to respiratory
 apparatus, heart, central nervous system thro
 prolonged or repeated exposure.

Precautional
StatementsPrevention
Precautionary
Statements

Do not breathe mist, vapours and spray. (P26

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

Response Precautionary Statements	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.(P305+P351+P338) If eye irritation persists: Get medical advice and attention.(P337+P313)
Storage Precautionary Statements	Store locked up.(P405)
Disposal Precautionary Statements	Dispose of contents and container in accordance with local, regional and national regulations (to be specified).(P501)

Section 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Distinction of Substance or Mixture mixture

Chemical Name or Generic Name	Concentration or Its Ranges	Formula	ENCS No./ISHL No.		CAS RN
			ENCS No.	ISHL No.	
Ethylene Glycol	12.85%	HOCH ₂ CH ₂ OH	(2)-230	Existing	107-21-1

Impurities and/or Stabilizing Additives which Cor 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 Environmental Precautions	No information available Pay attention not to cause the influence on the environment by discharging into rivers. This product is water pollutant. Prevent soil contamination, or the product from flowing into the drain systems.
Decontamination/Absorpti on/Sweeping/Vacuming/ Neutralization	Collect the material into a disposal container by sucking up or sweeping up.

Methods and Equipment for Containment and Cleaning up Prevention Measures for Secondary Accidents		Absorb spills with inert materials (such as dry sand or soil) and collect them into chemical-waste disposal container.
		Cleansing the contaminated area thoroughly with water after removal.
		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
	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	Avoid the contact with eyes. Wash hands thoroughly after handling. Avoid swallowing Avoid high temperature and direct sunlight.
	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. 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		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 an adequate personal eye protector.
	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	red
	Odour	odorless
	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
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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. In case of disposal of empty containers, remove the content thoroughly.

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	No information available
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Other Property

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Safety Data Sheet (SDS)

Preparation Date 2013/06/04

Revision Date 2016/06/08

Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name WPB30-C
 Product Code WPB30C0001
 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
 KF5, 6, 8, KFGN3, 4, 5, 8, KFLS5, 7, KFR5, 7, KFRS5, 7, KFRN3, 5, 7, KFRI7-C, K437-C, K497-C

Section 2 - HAZARDS IDENTIFICATION

GHS Classification

Health Hazards Serious eye damage/eye irritation Category 1
 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)
 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
 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.

Precautional Statements
 Prevention Do not breathe mist, vapours and spray. (P264)
 Precautionary Statements Wash hands thoroughly after handling. (P264)
 Wash eye thoroughly after handling. (P264)
 Do not eat, drink or smoke when using this product. (P270)

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.

Methods and Equipment for Containment and Cleaning up
Prevention Measures for Secondary Accidents

Cleansing the contaminated area thoroughly with water after removal.

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

Local and General Ventilation

Provide local ventilations and a full ventilation system as described in "8. EXPOSURE CONTROLS AND PERSONAL PROTECTION."

Precautions for Safe Handling

Avoid the contact with eyes.

Wash hands thoroughly after handling.

Avoid swallowing

Avoid high temperature and direct sunlight.

Prevents Handling of Incompatible Substances or Mixtures

Refer to "10. STABILITY AND REACTIVITY"

Storage Precautionary Statements

Technical Measures

The storage facility should be provided with necessary lighting, lighting equipment, and ventilator to store and handle dangerous goods.

Incompatible Substances or Mixtures

Refer to "10. STABILITY AND REACTIVITY"

Storage Conditions

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

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 an adequate personal eye protector.

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

blue

Odour

odorless

Initial Boiling Point and Boiling Ranges	pH	No data available
Flash Point		No information available
Auto-Ignition		no data available
		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.
		In case of disposal of empty containers, remove the content thoroughly.
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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