

Safety Data Sheet (SDS)

Preparation Date 2013/04/24
 Revision Date 2016/11/24

Section 1 - CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identification OPB2-A
 Product Code OPB2A0001
 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
 BP130, BPS10, BPL10-A

Section 2 - HAZARDS IDENTIFICATION

GHS Classification

Health Hazards Acute toxicity - inhalation (vapour) Category 2
 Serious eye damage/eye irritation Category 2
 Carcinogenicity Category 2
 Specific target organ toxicity (single exposure) Category 3 (narcotic effect)
 Specific target organ toxicity (repeated exposure) Category 1 (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
 H303 May be harmful if swallowed
 Precautionary Statements
 Prevention Avoid breathing mist, vapours and spray. (P2)
 Precautionary Statements
 Response Wash hand thoroughly after handling. (P264)
 Precautionary Statements Wear eye protection and face protection. (P2)
 IF INHALED: Remove to fresh air and keep a
 in a position comfortable for
 breathing. (P304+P340)
 Get medical advice and attention if you feel
 unwell. (P314)
 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)
 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.(P301+P330+P331)
Storage
 Precautionary Statements Store in a well-ventilated place keeping container tightly closed.(P403+P233)
Disposal
 Precautionary Statements Store locked up.(P405)
 Dispose of contents and container in accordance with local, regional and national regulations (to be specified).(P501)

Section 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Distinction of Substance or Mixture Mixture

Chemical Name or Generic Name	Concentration or Its Ranges	Formula	ENCS No./ISHL No.		CAS RN
			ENCS No.	ISHL No.	
Carbon black	27.62%		(5)-3328 (5)-5222	Existing	1333-86-4
2-Phenoxyethanol	33.8%		(3)-558 (7)-78 (9)-1277	Existing	122-99-6
Benzyl alcohol	11.27%	C7H5O	(3)-1011	Existing	100-51-6

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

Section 4 – FIRST AID MEASURES

Inhalation Remove person to fresh air and keep comfortable for breathing.
 Get medical advice and attention if you feel unwell.

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

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.
 Protection of Fire Figther In fire fighting, wear respiratory protection and chemical protective clothing.

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 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
 Allow material to solidify, and scrape up.

After removal, flush contaminated area thoroughly with water.
 Vacuum or sweep up material and place in a disposal container.
 Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container.
 Remove from water surface by skimming or with suitable absorbents. Do not use dispersants.
 Prevention Measures for Secondary Accidents
 Removes all ignition sources promptly. (Prohibition of smoking, sparks, and flames in the surrounding 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 breathing mist, vapours and spray.

Wash hand thoroughly after handling.
 Use exhaust ventilation.

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

Specific Hygiene Measures
 Wash hand thoroughly after handling.

Storage Precautionary Statements
 Technical Measures
 The storage facility should be provided with necessary lighting, lighting equipment, and ventilator to store and handle dangerous goods. Refer to "Section 10 – STABILITY AND REACTIVITY".
 Store in a well-ventilated and cool place keeping container tightly closed.
 Store locked up.

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

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	black
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

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.

When commissioning the disposal to a disposal company, notify the danger and toxicity thoroughly to the company.

Do not release waste liquid containing the product and used water for cleansing into rivers, etc., or do not discharge the concerned wastes intact for reclamation.

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

Not applicable

Information by Air

Regulations in Japan

Regulatory

Not applicable

Information by Road or Rail

Regulatory

Not applicable

Information by Sea

Marine Pollutant

Not applicable

Transport in bulk

Not applicable

according to

MARPOL

73/78,Annex II ,and the IBC code

Regulatory

Not applicable

Information by Air

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 2013/04/24
 Revision Date 2016/11/14

Section 1 - CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identification OPB2-B
 Product Code OPB2B0001
 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
 BPS7, 10-B, BPL7, 10-B, BP127,
 BP107, 110, 130-B

Section 2 - HAZARDS IDENTIFICATION

GHS Classification

Health Hazards Acute toxicity - oral Category 4
 Acute toxicity - inhalation (vapour) Category 4
 Serious eye damage/eye irritation Category 2
 Reproductive toxicity Category 2
 Other hazards than mentioned above are Not applicable or No data available.

GHS Label Elements

Symbols



Signal Word Warning
 Hazard Statements H302+H332 Harmful if swallowed or if inhaled
 H320 Causes eye irritation
 Precautionary Statements
 Prevention Avoid breathing mist, vapours and spray. (P2)
 Precautionary Statements
 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 attention. (P337+P313)
 Storage
 Precautionary Statements Store in a well-ventilated place keeping container tightly closed. (P403+P233)

Disposal
 Precautionary
 Statements

Store locked up.(P405)
 Dispose of contents and container in accordance
 with local, regional and national regulations (to be
 specified).(P501)

Section 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Distinction of Substance
 or Mixture

mixture

Chemical Name or Generic Name	Concentration or Its Ranges	Formula	ENCS No./ISHL No.		CAS RN
			ENCS No.	ISHL No.	
Benzyl alcohol	18.2%	C7H5O	(3)-1011	Existing	100-51-6
Ethyleneglycolmonophenyl ether	12.07%		(3)-558 (7)-78 (9)-1277	Existing	122-99-6
Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.- hydroxy-	9.05%	-[- CH2CH2O -] n-	(2)-441 (7)-129	Existing	25322-68-3

Impurities and/or
 Stabilizing Additives which
 Contribute to the

No information available

Section 4 – FIRST AID MEASURES

Inhalation

Remove person to fresh air and keep comfortable
 for breathing.
 Get medical advice and attention if you feel unwell.

Skin Contact

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

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

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

Section 5 – FIRE FIGHTING MEASURES

Extinguishing Media

Dry chemicals, CO2, water spray or regular foam.

Protection of Fire Figther

In fire fighting, wear respiratory protection and
 chemical protective clothing.

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 and should be
 prevented from contaminating soil or from entering
 sewage and drainage systems and bodies of water.
 Allow material to solidify, and scrape up.

Methods and Equipment
 for Containment and
 Cleaning up

After removal, flush contaminated area thoroughly
 with water.

Prevention Measures for Secondary Accidents	<p>Vacuum or sweep up material and place in a disposal container.</p> <p>Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container.</p> <p>Remove from water surface by skimming or with suitable absorbents. Do not use dispersants.</p> <p>Removes all ignition sources promptly. (Prohibition of smoking, sparks, and flames in the surrounding area).</p> <p>Remove thoroughly since the smooth and slippery surface will be formed on the floor.</p>
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Section 7 – HANDLING AND STORAGE

Handling	<p>Technical Measures Provide ventilation system and use necessary personal protective equipment as described in "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION".</p> <p>Precautions for Safe Handling Wash hand thoroughly after handling.</p> <p>Avoid breathing mist, vapours and spray. Use exhaust ventilation. Do not contact, breathe or swallow.</p> <p>Prevents Handling of Incompatible Substances or Mixtures Refer to "Section 10 – STABILITY AND REACTIVITY".</p> <p>Specific Hygiene Measures Wash hand thoroughly after handling.</p>
Storage Precautionary Statements	<p>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".</p> <p>Store in a well-ventilated place keeping container tightly closed. Store locked up.</p>

Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls	<p>Good general ventilation should be sufficient to control airborne levels.</p>
Personal Protective Equipment	<p>Respiratory Protection Use personal respiratory equipment as required.</p> <p>Hand Protection Use personal gloves as required.</p> <p>Eye Protection Wear eye protection. Protection glasses (ordinary glasses, ordinary glasses with side shields, and goggles).</p> <p>Skin and Body Protection Use personal protective clothing and face protection as required.</p>

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance	<p>Physical State liquid</p> <p>Form liquid (viscous liquid)</p> <p>Colour red</p>
Odour	<p>slight odor</p>
Odour threshold	<p>No data available</p>
pH	<p>No data available</p>
Melting Point/Freezing Point	<p>No data available</p>

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	No data available
	Lower Limit
	Upper Limit
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.
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Contaminated Container and Packaging	<p>Commission a waste disposal company, or a local public body who are licensed by local or regional government, to dispose of the material.</p> <p>When commissioning the disposal to a disposal company, notify the danger and toxicity thoroughly to the company.</p> <p>Do not release waste liquid containing the product and used water for cleansing into rivers, etc., or do not discharge the concerned wastes intact for reclamation.</p> <p>Recycle containers after cleansing, or carry out the disposal under the related laws and regulations and the standards of the local governments.</p> <p>In case of disposal of empty containers, remove the content thoroughly.</p>
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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	<p>This information is furnished without warranty express or implied.</p> <p>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.</p>

Safety Data Sheet (SDS)

Preparation Date 2014/10/16

Revision Date 2016/11/14

Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier OPB3-C
 Product Code OPB3C00001
 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
 BPL7,10-C, BPS7,10-C, BP107,110-C,
 BP127,130-C

Section 2 – HAZARDS IDENTIFICATION

GHS Classification

Health Hazards Serious eye damage/eye irritation Category 2A
 Reproductive toxicity Category 2
 Specific target organ toxicity (single exposure)
 Category 3(narcotic effect)
 Other hazards than mentioned above are Not
 applicable or No data available.

GHS Label Elements

Symbols



Signal Word Warning
 Hazard Statements H319 Causes serious eye irritation
 H336 May cause drowsiness and dizziness
 H361 Suspected of damaging fertility or the
 unborn child
 Precautionary Statements
 Prevention Obtain special instructions before use.(P201)
 Precautionary Statements
 Do not handle until all safety precautions have
 been read and understood.(P202)
 Avoid breathing mist, vapours and spray.(P261)
 Wash eye thoroughly after handling.(P264)
 Use only outdoors or in a well-ventilated
 area.(P271)
 Wear protective gloves.(P280)
 Wear eye protection and face protection.(P280)
 Response IF INHALED: Remove to fresh air and keep at rest
 Precautionary Statements in a position comfortable for
 breathing.(P304+P340)

Get medical advice and attention if you feel unwell.(P314)
 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)
 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.(P301+P330+P331)
 Store in a well-ventilated place keeping container tightly closed.(P403+P233)
 Store locked up.(P405)
 Dispose of contents and container in accordance with local, regional and national regulations (to be specified).(P501)

Storage
 Precautionary
 Statements

Disposal
 Precautionary
 Statements

Section 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Distinction of Substance or Mixture mixture

Chemical Name or Generic Name	Concentration or Its Ranges	Formula	ENCS No./ISHL No.		CAS RN
			ENCS No.	ISHL No.	
C.I.Pigment Blue 15	19.93%	Unknown	(5)-3299 (5)-3300 (5)-5216	Existing	147-14-8
2,4-Pentanediol, 2-methyl-	12.19%	Unknown	(2)-240 (4)-849	Existing	107-41-5

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

Section 4 – FIRST AID MEASURES

Inhalation Remove person to fresh air and keep comfortable for breathing.
 Get medical advice and attention if you feel unwell.

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

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

Section 5 – FIRE FIGHTING MEASURES

Extinguishing Media Dry chemicals, CO2, water spray or regular foam.
 Protection of Fire Figther In fire fighting, wear respiratory protection and chemical protective clothing.

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 and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water. Allow material to solidify, and scrape up.

Methods and Equipment
for Containment and
Cleaning up

After removal, flush contaminated area thoroughly with water.

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

Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Remove from water surface by skimming or with suitable absorbents. Do not use dispersants.

Prevention Measures for
Secondary Accidents

Removes all ignition sources promptly. (Prohibition of smoking, sparks, and flames in the surrounding 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 breathing mist, vapours and spray.

Wash hand thoroughly after handling.

Do not contact, breathe or swallow.

Use exhaust ventilation.

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

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".

Store in a well-ventilated place keeping container tightly closed.

Store locked up.

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		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
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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. When commissioning the disposal to a disposal company, notify the danger and toxicity thoroughly to the company. Do not release waste liquid containing the product and used water for cleansing into rivers, etc., or do not discharge the concerned wastes intact for reclamation.
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
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Other Property

This information is furnished without warranty
express or implied.

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