

Safety Data Sheet (SDS)

Preparation Date 2018/10/29

Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier OPB11-A
 Product Code OPB11A0002
 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

(X)BXM7H-A,XBXS7-A,XBXS7J-A,XBXS5J-A,XKBXS7-A, BX107A-A, BX157-A

Section 2 – HAZARDS IDENTIFICATION

GHS Classification

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

GHS Label Elements

Symbols



Signal Word

Danger

Hazard Statements

H226 Flammable liquid and vapour
 H315+H320 Causes skin and eye irritation
 H332 Harmful if inhaled
 H336 May cause drowsiness or dizziness
 H351 Suspected of causing cancer
 H360 May damage fertility or the unborn child
 H370 Causes damage to liver,blood,kidney,spleen
 H373 May cause damage to respiratory apparatus through prolonged or repeated exposure

Precautionary Statements	Avoid breathing gas.(P261)
Prevention	Avoid breathing mist, vapours and spray.(P261) Avoid breathing dust and fume.(P261) Wash hand thoroughly after handling.(P264) Wash eye thoroughly after handling.(P264) Do not eat, drink or smoke when using this product.(P270) Use only outdoors or in a well-ventilated area.(P271) Wear protective gloves.(P280)
Precautionary Statements	IF ON SKIN: Wash with plenty of soap and water.(P302+P352)
Response	If skin irritation or rash occurs, get medical advice and attention.(P333+P313) 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 INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.(P304+P340)
Precautionary Statements	Store in a well-ventilated place keeping container tightly closed.(P403+P233)
Storage	Store locked up.(P405)
Precautionary Statements	Dispose of contents and container in accordance with local, regional and national regulations (to be specified).(P501)
Disposal	
Precautionary Statements	

Section 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Distinction of Substance or Mixture	Mixture
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Chemical Name or Generic Name	Concentration or Its Ranges	Formula	ENCs No./ISHL No.		CAS RN
			ENCs No.	ISHL No.	
CarbonBlack(C. I. Pigment Black7)	5.5%	Unknown	Unknown	Unknown	1333-86-4
Ethylene glycol monoisopropyl ether	15.65%	Unknown	(2)-410	Existing	109-59-1
2-phenoxyethanol	15%	Unknown	(3)-558 (7)-78 (9)-1277	Existing	122-99-6
2-(2-Methoxyethoxy)ethanol	19.29%	Unknown	(2)-422 (2)-2979 (7)-97	Existing	111-77-3

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 plenty of soap and water. If skin irritation or rash occurs, get medical advice and attention.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. When the ocular stimulation lasts, Seek medical treatment and advice.
Ingestion	Rinse mouth. Do NOT induce vomiting. Get medical advice and attention if you feel unwell.

Section 5 – FIRE FIGHTING MEASURES

Extinguishing Media	Dry chemicals, CO2, fog, sand or regular foam.
Unsuitable Extinguishing Media	Straight streams.
Protection of Fire Fighter	In fire fighting, wear respiratory protection and chemical protective clothing.

Section 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures	Keep unauthorized personnel away. Do not touch or walk through spilled material. Stay upwind. Ventilate closed spaces before entering. Wear appropriate personal protective equipment (Refer to "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION") and avoid inhalation or contact with eyes and skin.
Environmental	Do not release into the environment. 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. Stop leak if you can do it without risk.
Methods and Equipment for Containment and Cleaning up	Small spills; absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Large spills; prevent flowing out with a dike and collect it at a safe place. Remove thoroughly since the smooth and slippery surface will be formed on the floor. After removal, flush contaminated area thoroughly with water.
Prevention Measures for Secondary Accidents	Removes all ignition sources promptly. (Prohibition of smoking, sparks, and flames in the surrounding area). Prevent flowing into drain, sewage, basement, and closed area.

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

Section 7 – HANDLING AND STORAGE

Handling	Technical Measures	Provide ventilation system and use necessary personal protective equipment as described in "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION".
	Precautions for Safe Handling	Avoid breathing gas. Avoid breathing mist, vapours and spray. Avoid breathing dust and fume. Wash hand thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Do not contact, breathe or swallow.
Storage Precautionary Statements	Prevents Handling of Incompatible Substances or Mixtures	Refer to "Section 10 – STABILITY AND REACTIVITY".
	Specific Hygiene Measures	Wash hand thoroughly after handling.
	Conditions for Safe Storage	Refer to "Section 10 – STABILITY AND REACTIVITY". Store in a well-ventilated place keeping container tightly closed. Have containers keep away from direct sunlight and 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		Take precautionary measures against static discharge. Good general ventilation should be sufficient to control airborne levels.
Personal Protective Equipment	Respiratory Protection	Use personal respiratory equipment as required.
	Hand Protection	Wear protective gloves.
	Eye Protection	Use personal eye protection as required.
	Skin and Body Protection	Use personal protective clothing and face protection as required.

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Physical State	liquid
	Form	liquid
	Colour	black
Odour		A characteristic odor makes it small.
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 Sensitization		No data available
Skin Sensitization		No data available
Germ Cell Mutagenicity		No data available
Carcinogenicity		No data available
Reproductive Toxicity		No data available
Specific target organ toxicity (single exposure)		No data available
Specific target organ toxicity (repeated exposure)		No data available
Aspiration Hazard		No data available

Section 12 – ECOLOGICAL INFORMATION

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

Section 13 – DISPOSAL CONSIDERATIONS

Residual Waste		Disposal should be in accordance with applicable regulations and standards by the respective local governments. Commission a waste disposal company, or a local public body who are licensed by local or regional government, to dispose of the material.
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Contaminated Container and Packaging	<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 2015/04/02

Revision Date 2018/10/29

Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier	OPB11-B
Product Code	OPB11B0002
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 (X)BXM7H-B,(X)BXS7-B,XKBXES-B BX107B-B, BX157-B

Section 2 – HAZARDS IDENTIFICATION

GHS Classification

Health Hazards	Acute toxicity (Inhalation: vapour) Category 4 Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2A Specific target organ toxicity (single exposure) Category 1(liver,blood,kidney,spleen) Specific target organ toxicity (single exposure) Category 2(central nervous system) Specific target organ toxicity (single exposure) Category 3(narcotic effect) Specific target organ toxicity (repeated exposure) Category 1(blood) Other hazards than mentioned above are Not applicable or Classification not possible.
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GHS Label Elements

Symbols



Signal Word	Danger
Hazard Statements	H315 Causes skin irritation H319 Causes serious eye irritation H332 Harmful if inhaled H371 May cause damage to central nervous system H372 Causes damage to blood through prolonged or repeated exposure H336 May cause drowsiness or dizziness H370 Causes damage to liver,blood,kidney,spleen
Precautionary Statements Prevention	Avoid breathing gas.(P261)
Precautionary Statements	Avoid breathing mist, vapours and spray.(P261)

	Avoid breathing dust and fume.(P261) Wash hand thoroughly after handling.(P264) Wash eye thoroughly after handling.(P264) Do not eat, drink or smoke when using this product.(P270) Use only outdoors or in a well-ventilated area.(P271) Wear protective gloves.(P280)
Response Precautionary Statements	IF ON SKIN: Wash with plenty of soap and water.(P302+P352) If skin irritation or rash occurs, get medical advice and attention.(P333+P313) Get medical advice and attention if you feel unwell.(P314) 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 eye irritation persists: Get medical advice and 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
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Chemical Name or Generic Name	Concentration or Its Ranges	Formula	ENCS No./ISHL No.		CAS RN
			ENCS No.	ISHL No.	
Ethylene glycol monoisopropyl ether	27.06%	Unknown	(2)-410	Existing	109-59-1
2-phenoxyethanol	30.23%	Unknown	(3)-558 (7)-78 (9)-1277	Existing	122-99-6
2-(2-Methoxyethoxy)ethanol	0.18%	Unknown	(2)-422 (2)-2979 (7)-97	Existing	111-77-3

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

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

Section 5 – FIRE FIGHTING MEASURES

Extinguishing Media Unsuitable Extinguishing Media	Dry chemicals, CO2, fog, sand or regular foam. Straight streams.
Protection of Fire Fighter	In fire fighting, wear respiratory protection and chemical protective clothing.

Section 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures	Keep unauthorized personnel away. Do not touch or walk through spilled material. Stay upwind. Ventilate closed spaces before entering. Wear appropriate personal protective equipment (Refer to "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION") and avoid inhalation or contact with eyes and skin.
Environmental	Do not release into the environment. 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. Stop leak if you can do it without risk.
Methods and Equipment for Containment and Cleaning up	Small spills; absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Large spills; prevent flowing out with a dike and collect it at a safe place. After removal, flush contaminated area thoroughly with water.
Prevention Measures for Secondary Accidents	Removes all ignition sources promptly. (Prohibition of smoking, sparks, and flames in the surrounding area). Prevent flowing into drain, sewage, basement, and closed area. Remove thoroughly since the smooth and slippery surface will be formed on the floor.

Section 7 – HANDLING AND STORAGE

Handling	Technical Measures	Provide ventilation system and use necessary personal protective equipment as described in "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION".
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	Precautions for Safe Handling	Avoid breathing gas. Avoid breathing mist, vapours and spray. Avoid breathing dust and fume. Wash hand thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Do not contact, breathe or swallow.
	Prevents Handling of Incompatible Substances or Mixtures	Refer to "Section 10 – STABILITY AND REACTIVITY".
	Specific Hygiene Measures	Wash hand thoroughly after handling.
Storage Precautionary Statements	Conditions for Safe Storage	Refer to "Section 10 – STABILITY AND REACTIVITY". Store in a well-ventilated place keeping container tightly closed. Have containers keep away from direct sunlight and 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		Take precautionary measures against static discharge. Good general ventilation should be sufficient to control airborne levels.
Personal Protective Equipment	Respiratory Protection	Use personal respiratory equipment as required.
	Hand Protection	Wear protective gloves.
	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	red
Odour		characteristic
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 Sensitization	No data available
Skin Sensitization	No data available
Germ Cell Mutagenicity	No data available
Carcinogenicity	No data available
Reproductive Toxicity	No data available
Specific target organ toxicity (single exposure)	No data available
Specific target organ toxicity (repeated exposure)	No data available
Aspiration Hazard	No data available

Section 12 – ECOLOGICAL INFORMATION

Hazardous to the aquatic environment (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	<p>Disposal should be in accordance with applicable regulations and standards by the respective local governments.</p> <p>Commission a waste disposal company, or a local public body who are licensed by local or regional government, to dispose of the material.</p> <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>
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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. In case of disposal of empty containers, remove the content thoroughly.

Section 14 – TRANSPORT INFORMATION

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

Section 15 – REGULATORY INFORMATION

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

Section 16 – OTHER INFORMATION

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

Safety Data Sheet (SDS)

Preparation Date 2015/04/02

Revision Date 2018/10/29

Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier OPB11-C
 Product Code OPB11C0002
 Company Name PENTEL CO., LTD.
 Address 7-2,KOAMICHO,NIHONBASHI,CHUO-KU,TOKYO
 Company Contact QUALITY ASSURANCE DEPARTMENT I
 Phone Number 03-5695-7210
 Fax Number 03-5645-8204
 Mail Address hinpo@pentel.co.jp
 Emergency Phone Number 03-5695-7210
 Recommended Use ink
 and Restriction on Use (X)BXM7H-C,(X)BXS7-C
 BX107C-C, BX157-C

Section 2 – HAZARDS IDENTIFICATION

GHS Classification

Health Hazards Acute toxicity (Inhalation: vapour) Category 4
 Serious eye damage/eye irritation Category 2A
 Reproductive toxicity Category 1B
 Specific target organ toxicity (single exposure)
 Category 2(liver,blood,kidney,spleen)
 Specific target organ toxicity (single exposure)
 Category 3(narcotic effect)
 Specific target organ toxicity (repeated exposure)
 Category 2(blood)
 Other hazards than mentioned above are Not applicable or Classification not possible.

GHS Label Elements

Symbols



Signal Word Danger
 Hazard Statements H319 Causes serious eye irritation
 H373 May cause damage to blood through prolonged or repeated exposure
 H332 Harmful if inhaled
 H336 May cause drowsiness or dizziness
 H360 May damage fertility or the unborn child
 H371 May cause damage to liver,blood,kidney,spleen

Precautionary Statements
 Prevention
 Precautionary Statements

Avoid breathing gas.(P261)
 Avoid breathing mist, vapours and spray.(P261)
 Avoid breathing dust and fume.(P261)
 Wash hand thoroughly after handling.(P264)
 Wash eye thoroughly after handling.(P264)

Response Precautionary Statements	<p>Do not eat, drink or smoke when using this product.(P270)</p> <p>Use only outdoors or in a well-ventilated area.(P271)</p> <p>Wear protective gloves.(P280)</p> <p>IF ON SKIN: Wash with plenty of soap and water.(P302+P352)</p> <p>If skin irritation or rash occurs, get medical advice and attention.(P333+P313)</p> <p>Get medical advice and attention if you feel unwell.(P314)</p> <p>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.(P305+P351+P338)</p> <p>If eye irritation persists: Get medical advice and attention.(P337+P313)</p> <p>IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.(P304+P340)</p>
Storage Precautionary Statements	<p>Store in a well-ventilated place keeping container tightly closed.(P403+P233)</p>
Disposal Precautionary Statements	<p>Store locked up.(P405)</p> <p>Dispose of contents and container in accordance with local, regional and national regulations (to be specified).(P501)</p>

Section 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Distinction of Substance
or Mixture

Mixture

Chemical Name or Generic Name	Concentration or Its Ranges	Formula	ENCS No./ISHL No.		CAS RN
			ENCS No.	ISHL No.	
C. I. SOLVENT BLUE 38	0.86%	Unknown	Unknown	Unknown	1328-51-4
Ethylene glycol mon oisopropyl ether	3.84%	Unknown	(2)-410	Existing	109-59-1
2-phenoxyethanol	13.97%	Unknown	(3)-558 (7)-78 (9)-1277	Existing	122-99-6
2-(2-Methoxyethox y)ethanol	39.12%	Unknown	(2)-422 (2)-2979 (7)-97	Existing	111-77-3

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

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

Section 5 – FIRE FIGHTING MEASURES

Extinguishing Media Unsuitable Extinguishing Media Protection of Fire Fighter	Dry chemicals, CO2, fog, sand or regular foam. Straight streams. In fire fighting, wear respiratory protection and chemical protective clothing.
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Section 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures	Keep unauthorized personnel away. Do not touch or walk through spilled material. Stay upwind. Ventilate closed spaces before entering. Wear appropriate personal protective equipment (Refer to "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION") and avoid inhalation or contact with eyes and skin.
Environmental	Do not release into the environment. 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. Stop leak if you can do it without risk.
Methods and Equipment for Containment and Cleaning up	Small spills; absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Large spills; prevent flowing out with a dike and collect it at a safe place. Remove thoroughly since the smooth and slippery surface will be formed on the floor. After removal, flush contaminated area thoroughly with water.
Prevention Measures for Secondary Accidents	Removes all ignition sources promptly. (Prohibition of smoking, sparks, and flames in the surrounding area). Do not get water inside containers. Prevent dispersion by covering with plastic sheets. Prevent flowing into drain, sewage, basement, and closed area.

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 gas. Avoid breathing mist, vapours and spray. Avoid breathing dust and fume. Wash hand thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Do not contact, breathe or swallow.
Storage Precautionary Statements	Prevents Handling of Incompatible Substances or Mixtures	Refer to "Section 10 – STABILITY AND REACTIVITY".
	Specific Hygiene Measures	Wash hand thoroughly after handling.
	Conditions for Safe Storage	Refer to "Section 10 – STABILITY AND REACTIVITY". Have containers keep away from direct sunlight and heat. Store in a well-ventilated place keeping container tightly closed. 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		Take precautionary measures against static discharge. Good general ventilation should be sufficient to control airborne levels.
Personal Protective Equipment	Respiratory Protection	Use personal respiratory equipment as required.
	Hand Protection	Wear protective gloves.
	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		characteristic
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 Sensitization	No data available
Skin Sensitization	No data available
Germ Cell Mutagenicity	No data available
Carcinogenicity	No data available
Reproductive Toxicity	No data available
Specific target organ toxicity (single exposure)	No data available
Specific target organ toxicity (repeated exposure)	No data available
Aspiration Hazard	No data available

Section 12 – ECOLOGICAL INFORMATION

Hazardous to the aquatic environment (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	<p>Disposal should be in accordance with applicable regulations and standards by the respective local governments.</p> <p>Commission a waste disposal company, or a local public body who are licensed by local or regional government, to dispose of the material.</p> <p>When commissioning the disposal to a disposal company, notify the danger and toxicity thoroughly to the company.</p>
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Contaminated Container and Packaging	<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 Transport in bulk according to MARPOL 73/78, Annex II, and the IBC code	Not applicable
	Regulatory Information by Air	Not applicable
Regulations in Japan	Regulatory Information by Road or Rail	Not applicable
	Regulatory Information by Sea	Not applicable
	Marine Pollutant Transport in bulk according to MARPOL 73/78, Annex II, and the IBC code	Not applicable
	Regulatory Information by Air	Not applicable
Emergency Response Guide Number		Not applicable

Section 15 – REGULATORY INFORMATION

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

Section 16 – OTHER INFORMATION

Information Contact	No information available
Other Property	<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 legal responsibility for use of or reliance upon this information.</p>