

Safety Data Sheet (SDS)

Preparation Date 2012/11/02
 Revision Date 2016/01/12

Section 1 - CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identification OPB11-A
 Product Code OPB11A0001
 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 or Use BX157-A
 (X) BXM7H-A, XBXS7-A, XKBXES7-A, XBXST5-A

Section 2 - HAZARDS IDENTIFICATION

GHS Classification

Health Hazards Acute toxicity - inhalation (vapour) Category 2
 Skin corrosion/irritation Category 2
 Serious eye damage/eye irritation Category 2
 Carcinogenicity Category 2
 Reproductive toxicity Category 1B
 Specific target organ toxicity (single exposure) Category 1 (blood)
 Specific target organ toxicity (single exposure) Category 3 (narcotic effect)
 Specific target organ toxicity (repeated exposure) Category 2 (blood, lung)
 Other hazards than mentioned above are Not applicable or No data available.

GHS Label Elements

Symbols



Signal Word Danger
 Hazard Statements H315+H320 Causes skin and eye irritation
 H227 Combustible liquid
 H303 May be harmful if swallowed

Precautionary Statements
 Prevention
 Precautionary Statements

Avoid breathing gas. (P261)
 Avoid breathing dust and fume. (P261)
 Avoid breathing mist, vapours and spray. (P264)
 Wash hand thoroughly after handling. (P264)
 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 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 skin irritation occurs: Get medical advice and attention.(P332+P313)
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

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.	
CarbonBlack (C. I. Pigment Black7)	5.5%		(5)-3328,(5)-5222	Existing	1333-86-4
Methyl Diglycol	24.88%		(2)-422,(7)-97	Existing	111-77-3
Ethylene glycol monoisopropyl ether	20.4%		(2)-410,(2)-2424,(7)-97	Existing	109-59-1
Phenyl Cellosolve	15%		(3)-558,(7)-78,(9)-1277	Existing	122-99-6
Cyclohexanone	0.14%	C6H10O	(3)-2376	Existing	108-94-1

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

If skin irritation occurs: Get medical advice and attention.
Immediately rinse skin with water.
Wash with plenty of soap and water.
Get medical advice and attention if you feel unwell.

Eye Contact

Call a doctor if you feel unwell.

Ingestion

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.
 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, fog, sand or regular foam.
 Use extinguishing agent suitable for type of surrounding fire.
 Straight streams.

Unsuitable Extinguishing Media

Specific Hazards

Fire may produce irritating, corrosive and/or toxic gases.

Specific Fire Fighting

Move containers from fire area if you can do it without risk.
 Cool containers with flooding quantities of water until well after fire is out.
 Eliminate all ignition sources if safe to do so.
 In fire fighting, wear respiratory protection and chemical protective clothing.

Protection of Fire Figther

Section 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions,
 Protective Equipment and
 Emergency Procedures

Ventilate closed spaces before entering.

Environmental

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
 Wear appropriate personal protective equipment (Refer to "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION") and avoid inhalation or contact with eyes and skin.
 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.
 All equipment used when handling the product must be grounded.

Methods and Equipment
 for Containment and
 Cleaning up

Stop leak if you can do it without risk.
 Allow material to solidify, and scrape up.
 After removal, flush contaminated area thoroughly with water.
 Absorb or cover with dry earth, sand or other non-combustible material and transfer to 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).
 Prevent flowing into drain, sewage, basement, and closed area.
 Prevent dispersion by covering with plastic sheets.
 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	Use only outdoors or in a well-ventilated area. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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	No specific technical measures are required. 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 away from oxidants. Keep away from heat, sparks, open flames and hot surfaces. No smoking. Store at temperatures not exceeding appropriate temperature.
	Material Used in Packaging/Container	Use containers prescribed in the "Fire Service Law (Japan)" and the "UN Transport Regulations". Use the containers prescribed in the "Fire Service Law (Japan)". Use the containers prescribed in the "UN Transport Regulations". Packaging materials and containers are not legislated, but use sturdy and closed-type containers.

Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls		Carry out handling of the material in the workplace equipped with a full ventilation system. Take precautionary measures against static discharge. Good general ventilation should be sufficient to control airborne levels.
Personal Protective Equipment	Respiratory Protection	Use necessary personal protective equipment.
	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 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.

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 2016/01/12

Section 1 - CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identification 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 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 or Use BX157-B
 (X) BXM7H-B, (X) BXS7-B, XKBXES-B

Section 2 - HAZARDS IDENTIFICATION

GHS Classification

Health Hazards Acute toxicity - dermal Category 4
 Acute toxicity - inhalation (vapour) Category 3
 Skin corrosion/irritation Category 2
 Serious eye damage/eye irritation Category 2
 Reproductive toxicity Category 2
 Specific target organ toxicity (single exposure) Category 1 (blood)
 Specific target organ toxicity (single exposure) Category 3 (narcotic effect)
 Specific target organ toxicity (repeated exposure) Category 2 (blood)
 Environmental Hazards Hazard to the aquatic environment (long-term hazard) Category 3
 Other hazards than mentioned above are Not applicable or No data available.

GHS Label Elements

Symbols



Signal Word Danger
 Hazard Statements H312+H332 Harmful in contact with skin or if inhaled
 H315+H320 Causes skin and eye irritation
 H336 May cause drowsiness and dizziness
 H361 Suspected of damaging fertility or the unborn child
 H370 Causes damage to blood
 H373 May cause damage to blood through prolonged or repeated exposure
 H412 Harmful to aquatic life with long lasting effects

Precautionary Statements

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.
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

Small fires: Dry chemical, CO2, water spray or regular foam.
Straight streams.

Unsuitable Extinguishing
Media

Specific Hazards

Combustible material; may burn but does not ignite readily.

Specific Fire Fighting

Cool containers with flooding quantities of water until well after fire is out.

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

Do not touch or walk through spilled material.

Environmental

Wear appropriate personal protective equipment (Refer to "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION") and avoid inhalation or contact with eyes and skin.
Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
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; cover with DRY earth, DRY sand, or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain.

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.
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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	Obtain special instructions before use.
	Do not handle until all safety precautions have been read and understood. Wash hand thoroughly after handling. Use only outdoors or in a well-ventilated area. Do not breathe mist, vapours and spray. Use exhaust ventilation. Do not contact, breathe or swallow. Do not breathe and swallow. Do not contact with skin.

Storage Precautionary Statements	Prevents Handling of Incompatible Substances or Mixtures	Refer to "Section 10 – STABILITY AND REACTIVITY".
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Specific Hygiene Measures	Wash hand thoroughly after handling.
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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".
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Store locked up.

Material Used in Packaging/Containers	Packaging materials and containers are not legislated, but use sturdy and closed-type containers.
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Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls	Use explosion-proof electrical, ventilating and lighting equipment. Take precautionary measures against static discharge. Good general ventilation should be sufficient to control airborne levels.
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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)
	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	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. 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.

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

Section 15 – REGULATORY INFORMATION

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

Section 16 – OTHER INFORMATION

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

Preparation Date 2015/04/02

Revision Date 2016/01/12

Section 1 - CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identification 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 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
 BX157-C
 (X) BXM7H-C, (X) BXS7-C

Section 2 - HAZARDS IDENTIFICATION

GHS Classification

Health Hazards Acute toxicity - inhalation (vapour) Category 2
 Serious eye damage/eye irritation Category 2
 Reproductive toxicity Category 1B
 Specific target organ toxicity (single exposure) Category 2 (blood)
 Specific target organ toxicity (single exposure) Category 3 (narcotic effect)
 Environmental Hazards Hazard to the aquatic environment (long-term hazard) Category 3
 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
 H336 May cause drowsiness and dizziness
 H360 May damage fertility or the unborn child
 H371 May cause damage to blood
 H412 Harmful to aquatic life with long lasting effects
 Precautionary Statements
 Prevention Obtain special instructions before use. (P201)
 Precautionary Statements
 Do not handle until all safety precautions have been read and understood. (P202)
 Do not breathe mist, vapours and spray. (P261)
 Avoid breathing gas. (P261)
 Avoid breathing mist, vapours and spray. (P271)

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)
 Avoid release to the environment.(P273)
 Wear protective gloves.(P280)
Response
Precautionary
Statements
 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: Get medical advice and attention.(P308+P313)
 Call a doctor if you feel unwell.(P312)
 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)
 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.	
C. I. SOLVENT BLUE 38	0.87%	Unknown	(5)-3123	Existing	1328-51-4
Ethylene glycol monoisopropyl ether	3.89%	Unknown	(2)-410,(2)-2424,(7)-97	Existing	109-59-1

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.
 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 Small fires: Dry chemical, CO2, water spray or regular foam.
Unsuitable Extinguishing Media Straight streams.
Specific Hazards Combustible material; may burn but does not ignite readily.
Specific Fire Fighting Cool containers with flooding quantities of water until well after fire is out.
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 Do not touch or walk through spilled material.

Wear appropriate personal protective equipment (Refer to "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION") and avoid inhalation or contact with eyes and skin.
Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
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; cover with DRY earth, DRY sand, or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain.

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.

Section 7 – HANDLING AND STORAGE

Handling Technical Measures Provide ventilation system and use necessary personal protective equipment as described in "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION".
Precautions for Safe Handling Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.
Wash hand thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Do not breathe mist, vapours and spray.
Use exhaust ventilation.

		Do not contact, breathe or swallow. Do not breathe and swallow. Do not contact with skin.
	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 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		Use explosion-proof electrical, ventilating and lighting equipment. 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	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)
	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 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.
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
	Not applicable
	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
Other Property

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

Safety Data Sheet (SDS)

Preparation Date 2013/07/02
 Revision Date 2016/01/12

Section 1 - CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identification ODB8-D
 Product Code ODB8D0001
 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
 BX157D-D
 (X) BXM7H-D, (X) BXS7-D, (X) BXS5-D

Section 2 - HAZARDS IDENTIFICATION

GHS Classification

Health Hazards Acute toxicity - inhalation (vapour) Category 3
 Reproductive toxicity Category 1B
 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 Danger
 Hazard Statements H301 Toxic if swallowed
 Precautionary Statements
 Prevention Avoid breathing mist, vapours and spray. (P2)
 Precautionary Statements
 Wear protective gloves. (P280)
 Keep container tightly closed. (P233)
 Wash hand thoroughly after handling. (P264)
 Response IF INHALED: Remove to fresh air and keep a
 Precautionary Statements in a position comfortable for
 breathing. (P304+P340)
 Call a doctor if you feel unwell. (P312)
 IF ON SKIN: Gently wash with plenty of soa
 water. (P302+P350)
 IF IN EYES: Rinse cautiously with water fo
 several minutes. Remove contact lenses, if
 present and easy to do. Continue
 rinsing. (P305+P351+P338)
 Storage Store in a well-ventilated place keeping co
 Precautionary Statements tightly closed. (P403+P233)

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.	
Diethylene glycol monomethyl ether	70.985%	Unknown	(2)-422,(7)-97	Existing	111-77-3
Phenyl cellosolve	3%	Unknown	(3)-2882	Existing	93-56-1
Solvent Blue 38	11.5%	Unknown	(5)-3123	Existing	1328-51-4

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

Section 4 – FIRST AID MEASURES

Inhalation
 Skin Contact
 Eye Contact
 Ingestion

Call a doctor if you feel unwell.
 Call a doctor if you feel unwell.
 Wash with soap and water.
 If skin irritation or rash occurs, get medical advice and attention.
 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.
 Rinse mouth.
 Call a doctor if you feel unwell.

Section 5 – FIRE FIGHTING MEASURES

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

Isolate the site as a leak area by providing a zone that has an appropriate width to all directions.
 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.
 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.
 Stop leak if you can do it without risk.
 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	Wash hand thoroughly after handling. Avoid contact with eyes and skin. Avoid swallowing. Handle at a well-ventilated place.
	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	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".

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	green
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 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.

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

Section 15 – REGULATORY INFORMATION

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

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.

Information Contact

No information available

Safety Data Sheet (SDS)

Preparation Date 2013/05/30

Revision Date 2016/01/12

Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name ODB6-F
 Product Code ODB6F0001
 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 ink
 and Restriction or Use BX157F-F
 (X) BXM7H-F

Section 2 - HAZARDS IDENTIFICATION

GHS Classification

Health Hazards Acute toxicity - dermal Category 4
 Acute toxicity - inhalation(gas) Category 2
 Acute toxicity - inhalation(vapour) Category 2
 Skin corrosion/irritation Category 2
 Serious eye damage/eye irritation Category 2
 Reproductive toxicity Category 1B
 Specific target organ toxicity(single exposure) Category 1(blood)
 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 No data available.

GHS Label Elements
 Symbols



Signal Word Danger
 Hazard Statements H302 Harmful if swallowed
 Precautional Statements
 Prevention Keep container tightly closed. (P233)
 Precautionary Statements
 Avoid breathing mist, vapours and spray. (P2)
 Wash hands thoroughly after handling. (P264)
 Wear protective gloves. (P280)
 Response
 Precautionary Statements IF ON SKIN: Gently wash with plenty of soa water. (P302+P352)
 IF INHALED: Call a doctor if you feel unwell. (P304+P312)

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 skin irritation occurs: Get medical advice and attention.(P332+P313)
 If eye irritation persists: Get medical advice and attention.(P337+P313)
 Take off contaminated clothing and wash before reuse.(P362)
 Store in a well-ventilated place. Keep container tightly closed.(P403+P233)
 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.	
Isopropyl glycol	37%	(CH ₃) ₂ CHOCH ₂ CH ₂ OH	(2)-410,(2)-2424,(7)-97	Existing	109-59-1
Diethylene glycol monomethyl ether	14.09%	HO(CH ₂ CH ₂ O) ₂ CH ₃	(2)-422,(7)-97	Existing	111-77-3
Phenyl cellosolve	20%	C ₆ H ₅ OCH ₂ CH ₂ OH	(3)-558,(7)-78,(9)-1277	Existing	122-99-6

Impurities and/or Stabilizing Additives which Cor No information available

Section 4 – FIRST AID MEASURES

Inhalation
 Skin Contact
 Eye Contact
 Ingestion

Call a doctor if you feel unwell.
 Wash with soap and plenty of water.
 Wash contaminated clothing before reuse.
 Call a doctor if you feel unwell.
 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.
 Rinse mouth.
 Call a doctor if you feel unwell.

Section 5 – FIRE FIGHTING MEASURES

Extinguishing Media
 Protection of Fire Figther

No information available
 In fire-extinguishing activity, wear an appropriate air breathing apparatus and full protective clothing for chemicals

Section 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures	Isolate the site as a leak area by providing a zone that has an appropriate width to all directions.
Environmental	Ventilate the closed area before entering. Do not release into the environment. 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. Remove from water surface by skimming, or absorbing with an adequate absorbent. If not dangerous, stop the leak.
Methods and Equipment for Containment and Cleaning up 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 "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 and the skin. Wash hands thoroughly after handling. Avoid swallowing Do not breathe mist, vapours and spray. Carry out ventilation of the exhaust.
Storage Precautionary Statements	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.
	Incompatible Substances or Mixtures	Refer to "10. STABILITY AND REACTIVITY"
	Storage Conditions	Store in a well-ventilated and cool place keeping container tightly closed.
	Material Used in Packaging/Container	No information available

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 (viscous liquid)
	Colour	orange
	Odour	characteristic
	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.

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 PENDEL Co., Ltd. but not assumes legal responsibility for use of or reliance upon this information.

Safety Data Sheet (SDS)

Preparation Date 2013/05/30

Revision Date 2016/01/12

Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name ODB6-P
 Product Code ODB6P0001
 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
 BX157P-P
 (X) BXM7H-P

Section 2 - HAZARDS IDENTIFICATION

GHS Classification

Health Hazards Acute toxicity - inhalation(gas) Category 2
 Acute toxicity - inhalation(vapour) Category 2
 Skin corrosion/irritation Category 2
 Serious eye damage/eye irritation Category 2
 Reproductive toxicity Category 1B
 Specific target organ toxicity(single exposure) Category 1(blood)
 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 No data available.

GHS Label Elements
 Symbols



Signal Word Danger
 Hazard Statements H302 Harmful if swallowed
 Precautional Statements
 Prevention Keep container tightly closed. (P233)
 Precautionary Statements
 Avoid breathing mist, vapours and spray. (P2)
 Wash hands thoroughly after handling. (P264)
 Wear protective gloves. (P280)
 Response
 Precautionary Statements
 IF ON SKIN: Gently wash with plenty of soa water. (P302+P352)
 IF INHALED: Call a doctor if you feel unwell. (P304+P312)

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 skin irritation occurs: Get medical advice and attention.(P332+P313)

If eye irritation persists: Get medical advice and attention.(P337+P313)

Take off contaminated clothing and wash before reuse.(P362)

Storage
Precautionary
Statements
Disposal
Precautionary
Statements

Store in a well-ventilated place. Keep container tightly closed.(P403+P233)

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.	
Isopropyl glycol	16%	(CH ₃) ₂ CHOCH ₂ CH ₂ OH	(2)-410,(2)-2424,(7)-97	Existing	109-59-1
Diethylene glycol monomethyl ether	22.59%	HO(CH ₂ CH ₂ O) ₂ CH ₃	(2)-422,(7)-97	Existing	111-77-3
Phenyl cellosolve	40%	C ₆ H ₅ OCH ₂ CH ₂ OH	(3)-558,(7)-78,(9)-1277	Existing	122-99-6

Impurities and/or Stabilizing Additives which Cor No information available

Section 4 – FIRST AID MEASURES

Inhalation

Call a doctor if you feel unwell.

Skin Contact

Wash contaminated clothing before reuse.

Call a doctor if you feel unwell.

Wash with water and soap.

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 mouth.

Call a doctor if you feel unwell.

Section 5 – FIRE FIGHTING MEASURES

Extinguishing Media

No information available

Protection of Fire Figther

In fire-extinguishing activity, wear an appropriate air breathing apparatus and full protective clothing for chemicals

Section 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures	Isolate the site as a leak area by providing a zone that has an appropriate width to all directions.
Environmental	Ventilate the closed area before entering. Do not release into the environment. 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. Remove from water surface by skimming, or absorbing with an adequate absorbent. If not dangerous, stop the leak.
Methods and Equipment for Containment and Cleaning up 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 "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."
	Precautions for Safe Handling	Avoid the contact with eyes and the skin. Wash hands thoroughly after handling. Avoid swallowing Do not breathe mist, vapours and spray. Carry out ventilation of the exhaust.
	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. Refer to "10. STABILITY AND REACTIVITY"
	Incompatible Substances or Mixtures	
	Storage Conditions	Store in a well-ventilated and cool place keeping container tightly closed.
	Material Used in Packaging/Container	No information available

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. Wear an adequate protective apparatus for respiratory organs.
	Hand Protection Eye Protection	Use necessary personal protective gloves. Use a personal eye protector whenever necessary.

	Skin and Body Protection	Use the personal protective clothing and full face mask whenever necessary. Wash hands thoroughly after handling.
Specific Hygiene Measures		

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Physical State	liquid (viscous liquid)
	Colour	pink
	Odour	characteristic
	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.

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 legal responsibility for use of or reliance upon this information.

Safety Data Sheet (SDS)

Preparation Date 2013/05/30

Revision Date 2016/01/12

Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name ODB6-S
 Product Code ODB6S0001
 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
 BX157S-S
 (X) BXM7H-S

Section 2 - HAZARDS IDENTIFICATION

GHS Classification

Health Hazards Acute toxicity - inhalation(gas) Category 2
 Acute toxicity - inhalation(vapour) Category 2
 Skin corrosion/irritation Category 2
 Serious eye damage/eye irritation Category 2
 Reproductive toxicity Category 1B
 Specific target organ toxicity(single exposure) Category 1(blood)
 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 No data available.

GHS Label Elements
 Symbols



Signal Word Danger
 Hazard Statements H302 Harmful if swallowed
 Precautional Statements
 Prevention Keep container tightly closed. (P233)
 Precautionary Statements
 Avoid breathing mist, vapours and spray. (P2)
 Wash hands thoroughly after handling. (P264)
 Wear protective gloves. (P280)
 Response
 Precautionary Statements
 IF ON SKIN: Gently wash with plenty of soa water. (P302+P352)
 IF INHALED: Call a doctor if you feel unwell. (P304+P312)

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 skin irritation occurs: Get medical advice and attention.(P332+P313)

If eye irritation persists: Get medical advice and attention.(P337+P313)

Take off contaminated clothing and wash before reuse.(P362)

Storage
Precautionary
Statements
Disposal
Precautionary
Statements

Store in a well-ventilated place. Keep container tightly closed.(P403+P233)

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.	
Isopropyl glycol	10%	(CH ₃) ₂ CHOCH ₂ CH ₂ OH	(2)-410,(2)-2424,(7)-97	Existing	109-59-1
Diethylene glycol monomethyl ether	43.96%	HO(CH ₂ CH ₂ O) ₂ CH ₃	(2)-422,(7)-97	Existing	111-77-3
Phenyl cellosolve	15%	C ₆ H ₅ OCH ₂ CH ₂ OH	(3)-558,(7)-78,(9)-1277	Existing	122-99-6
Solvent Blue 38	10.4%	C ₃₂ H ₁₄ CuN ₈ O ₆ S ₂ ·2Na	(5)-3123	Existing	1328-51-4

Impurities and/or Stabilizing Additives which Cor No information available

Section 4 – FIRST AID MEASURES

Inhalation

Call a doctor if you feel unwell.

Skin Contact

Wash contaminated clothing before reuse.

Call a doctor if you feel unwell.

Wash with water and soap.

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 mouth.

Call a doctor if you feel unwell.

Section 5 – FIRE FIGHTING MEASURES

Extinguishing Media

No information available

Protection of Fire Figther

In fire-extinguishing activity, wear an appropriate air breathing apparatus and full protective clothing for chemicals

Section 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures	Isolate the site as a leak area by providing a zone that has an appropriate width to all directions.
Environmental	Ventilate the closed area before entering. Do not release into the environment. 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. Remove from water surface by skimming, or absorbing with an adequate absorbent. If not dangerous, stop the leak.
Methods and Equipment for Containment and Cleaning up 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 "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 and the skin. Wash hands thoroughly after handling. Avoid swallowing Do not breathe mist, vapours and spray. Carry out ventilation of the exhaust.
	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	Store in a well-ventilated and cool place keeping container tightly closed.
	Material Used in Packaging/Container	No information available

Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls		A general proper ventilation is enough to control concentration in air.
Personal Protective Equipment	Respiratory Protection Hand Protection Eye Protection	Use a personal protective apparatus for respiratory organs whenever necessary. Use necessary personal protective gloves. Use a personal eye protector whenever necessary.

	Skin and Body Protection	Use the personal protective clothing and full face mask whenever necessary. Wash hands thoroughly after handling.
Specific Hygiene Measures		

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Physical State	liquid (viscous liquid)
	Colour	水色
	Odour	characteristic
	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.

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 legal responsibility for use of or reliance upon this information.

Safety Data Sheet (SDS)

Preparation Date 2013/05/30

Revision Date 2016/01/12

Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name ODB6-V
 Product Code ODB6V0001
 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
 BX157V-V
 (X) BXM7H-V

Section 2 - HAZARDS IDENTIFICATION

GHS Classification

Health Hazards Acute toxicity - inhalation(gas) Category 2
 Acute toxicity - inhalation(vapour) Category 2
 Skin corrosion/irritation Category 2
 Serious eye damage/eye irritation Category 2
 Reproductive toxicity Category 1B
 Specific target organ toxicity(single exposure) Category 1(blood)
 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 No data available.

GHS Label Elements
 Symbols



Signal Word Danger
 Hazard Statements H302 Harmful if swallowed
 Precautional Statements
 Prevention Keep container tightly closed. (P233)
 Precautionary Statements
 Avoid breathing mist, vapours and spray. (P2)
 Wash hands thoroughly after handling. (P264)
 Wear protective gloves. (P280)
 Response
 Precautionary Statements
 IF ON SKIN: Gently wash with plenty of soa water. (P302+P352)
 IF INHALED: Call a doctor if you feel unwell. (P304+P312)

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 skin irritation occurs: Get medical advice and attention.(P332+P313)

If eye irritation persists: Get medical advice and attention.(P337+P313)

Take off contaminated clothing and wash before reuse.(P362)

Storage
Precautionary
Statements
Disposal
Precautionary
Statements

Store in a well-ventilated place. Keep container tightly closed.(P403+P233)

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.	
Isopropyl glycol	10%	(CH ₃) ₂ CHOCH ₂ CH ₂ OH	(2)-410,(2)-2424,(7)-97	Existing	109-59-1
Diethylene glycol monomethyl ether	43.96%	HO(CH ₂ CH ₂ O) ₂ CH ₃	(2)-422,(7)-97	Existing	111-77-3
Phenyl cellosolve	15%	C ₆ H ₅ OCH ₂ CH ₂ OH	(3)-558,(7)-78,(9)-1277	Existing	122-99-6
Solvent Blue 38	10.4%	C ₃₂ H ₁₄ CuN ₈ O ₆ S ₂ ·2Na	(5)-3123	Existing	1328-51-4

Impurities and/or Stabilizing Additives which Cor No information available

Section 4 – FIRST AID MEASURES

Inhalation

Call a doctor if you feel unwell.

Skin Contact

Wash contaminated clothing before reuse.

Call a doctor if you feel unwell.

Wash with water and soap.

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 mouth.

Call a doctor if you feel unwell.

Section 5 – FIRE FIGHTING MEASURES

Extinguishing Media

No information available

Protection of Fire Figther

In fire-extinguishing activity, wear an appropriate air breathing apparatus and full protective clothing for chemicals

Section 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures	Isolate the site as a leak area by providing a zone that has an appropriate width to all directions.
Environmental	Ventilate the closed area before entering. Do not release into the environment. 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. Remove from water surface by skimming, or absorbing with an adequate absorbent. If not dangerous, stop the leak.
Methods and Equipment for Containment and Cleaning up 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 "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."
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Personal Protective Equipment	Respiratory Protection Hand Protection Eye Protection	Use a personal protective apparatus for respiratory organs whenever necessary. Use necessary personal protective gloves. Use a personal eye protector whenever necessary.

Specific Hygiene Measures	Skin and Body Protection	Use the personal protective clothing and full face mask whenever necessary. Wash hands thoroughly after handling.
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Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Physical State	liquid (viscous liquid)
	Colour	purple
	Odour	characteristic
	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

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Section 14 – TRANSPORT INFORMATION

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	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

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Other Property

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