Safety Data Sheet (SDS)

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

Section 1 - CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier WPB36-A
Product Code WPB36AO001
Company Name PENTEL CO., LTD.
Address 7-2, KOAMICHO, NIHONBASHI, CHUO-KU, TOKYO
Company Contact QUALITY ASSURANCE DEPARTMENT 1
Phone Number 048-928-6668
Fax Number 048-928-9190
Mail Address hinpo@pentel.co.jp
Emergency Phone 048-928-6668

Recommended Use ink and Restriction on Use

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

Section 2 - HAZARDS IDENTIFICATION

GHS Classification

Health Hazards Serious eye damage/eye irritation Category Carcinogenicity Category 2
Specific target organ toxicity (single exposure) Category 1 (respiratory apparatus, heart, kidney, central nervous system)
Specific target organ toxicity (repeated exposure) Category 1 (respiratory apparatus, heart, central nervous system)
Specific target organ toxicity (repeated exposure) Category 2 (lung)
Other hazards than mentioned above are Not applicable or No data available.

GHS Label Elements

Symbols

Signal Word Danger

Hazard Statements

H320 Causes eye irritation
H351 Suspected of causing cancer
H370 Causes damage to respiratory apparatus, heart, kidney, central nervous system
H372 Causes damage to respiratory apparatus, heart, central nervous system through prolonged or repeated exposure
H373 May cause damage to lung through prolo or repeated exposure

Precautionary Statements

Prevention Obtain special instructions before use. (P20)
Section 3 – COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name or Generic Name</th>
<th>Concentration or Its Ranges</th>
<th>Formula</th>
<th>ENCS No./ISHL No.</th>
<th>ENCS No.</th>
<th>ISHL No.</th>
<th>CAS RN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerol</td>
<td>16.2%</td>
<td>CH(_2)OH(\text{C(OH)})C(_2)H(_2)OH)</td>
<td>(2)–242,(7)–338</td>
<td>Existing</td>
<td>56–81–5</td>
<td></td>
</tr>
<tr>
<td>Ethylene Glycol</td>
<td>11.6%</td>
<td>HO(_2)CH(_2)OH</td>
<td>(2)–230</td>
<td>Existing</td>
<td>107–21–1</td>
<td></td>
</tr>
<tr>
<td>C. I. Pigment Black7</td>
<td>7.29%</td>
<td>(5)–3328,(5)–5222</td>
<td>Existing</td>
<td>1333–86–4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Impurities and/or Stabilizing Additives which Contribute to the mixture

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, water spray or regular foam.

Section 6 – ACCIDENTAL RELEASE MEASURES
Environmental Precautions
Pay attention not to cause the influence on the environment by discharging into rivers.
This product is water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.

Methods and Equipment for Containment and Cleaning up
Vacuum or sweep up material and place in a disposal container.

Prevention Measures for Secondary Accidents
Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container.
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 contact with eyes.
Wash hand thoroughly after handling.
Avoid swallowing.
Protect from high temperature and direct sunlight.
Prevent Handling of Imcompatible Substances or Mixtures
Refer to “Section 10 – STABILITY AND REACTIVITY”.

Storage Precautionary Statements
The storage facility should be provided with necessary lighting, lighting equipment, and ventilator to store and handle dangerous goods.
Refer to “Section 10 – STABILITY AND REACTIVITY”.
Have containers keep away from direct sunlight and heat.
Keep away from heat.
Store locked up.

Material Used in Packaging/Container
Packaging materials and containers are not legislated, but use sturdy and closed–type containers.

Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION
Engineering Controls
Good general ventilation should be sufficient to control airborne levels.

Personal Protective Equipment
Respiratory Protection
Use personal respiratory equipment as required.
Hand Protection
Use personal gloves as required.
Eye Protection
Wear eye protection.
Skin and Body Protection
Use personal protective clothing and face protection as required.
Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance  Physical State  liquid
Form  liquid
Colour  black

Odour  odorless
Odour threshold  No data available
pH  No data available
Melting Point/Freezing  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 Lower Limit  No data available
Limits  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  No data available
Temperature  No data available
Viscosity  No data available
Kinematic viscosity  No data available
Flammability or Explosive Limits  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
Imcompatible Substances or Mixtures  No data available
Hazardous Decomposition Products  No data available

Section 11 - TOXICOLOGICAL INFORMATION

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

Section 12 - ECOLOGICAL INFORMATION
Hazard to the aquatic environment (acute) | No data available
---|---
Hazard to the aquatic environment (long-term hazard) | No data available
Hazard to the ozone layer | No data available

Section 13 – DISPOSAL CONSIDERATIONS
Residual Waste
Disposal should be in accordance with applicable regulations and standards by the respective local governments. Commission a waste disposal company, or a local public body who are licensed by local or regional government, to dispose of the material.

Contaminated Container and Packaging
Recycle containers after cleansing, or carry out the disposal under the related laws and regulations and the standards of the local governments. In case of disposal of empty containers, remove the content thoroughly.

Section 14 – TRANSPORT INFORMATION
International Regulations
Regulatory Information by Sea
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
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
This information is furnished without warranty express or implied.
This information is believed to be accurate to the best knowledge of PENTEL Co., Ltd. but not assumes legal responsibility for use of or reliance upon this information.
Safety Data Sheet (SDS)

Preparation Date 2013/06/04
Revision Date 2016/06/08

Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION
Product Name WPB30-B
Product Code WPB30B0001
Company Name PENTEL CO., LTD.
Address 7-2, KOAMICHO, NIHONBASHI, CHUO-KU, TOKYO
Company Contact QUALITY ASSURANCE DEPARTMENT I
Phone Number 048-928-6668
Emergency Phone 048-928-6668
Number
Fax Number 048-928-9190
Mail Address hinpo@pentel.co.jp
Recommended Use ink
and Restriction on Use
KF5, 6, 8, KFGN3, 4, 5, 8, KFLS5, 7, KFR5, 7, KFRS5, 7, KFRN3, 5, 7, KFRI7-B K437-B, K497-B

Section 2 - HAZARDS IDENTIFICATION
GHS Classification

Health Hazards Serious eye damage/eye irritation Category Specific target organ toxicity (single exposure) Category 1 (respiratory apparatus, heart, kidney, central nervous system) Specific target organ toxicity (repeated exposure) Category 1 (central nervous system, respiratory apparatus, heart)
Other hazards than mentioned above are Not applicable or No data available.

GHS Label Elements
Symbols

Signal Word Danger
Hazard Statements H320 Causes eye irritation
H370 Causes damage to respiratory apparatus, heart, kidney, central nervous system
H372 Causes damage to respiratory apparatus, heart, central nervous system through prolonged or repeated exposure.

Precautional Statements
Prevention Do not breathe mist, vapours and spray. (P26)
Precautionary Statements
Wash hands thoroughly after handling. (P264)
Wash eye thoroughly after handling. (P264)
Do not eat, drink or smoke when using this product. (P270)
Response  IF IN EYES: Rinse cautiously with water for
Precautionary  several minutes. Remove contact lenses, if
Statements  present and easy to do. Continue
rinsing.(P305+P351+P338)
If eye irritation persists: Get medical advice and
attention.(P337+P313)

Storage  Store locked up.(P405)

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

Section 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Distinction of Substance  mixture
or Mixture

<table>
<thead>
<tr>
<th>Chemical Name or Generic Name</th>
<th>Concentration or Its Ranges</th>
<th>Formula</th>
<th>ENCS No./ISHL No.</th>
<th>CAS RN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene Glycol</td>
<td>12.85%</td>
<td>HOCH2CH_2OH</td>
<td>(2)–230</td>
<td>Existing 107–21–1</td>
</tr>
</tbody>
</table>

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

Section 4 – FIRST AID MEASURES

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

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

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

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

Section 5 – FIRE FIGHTING MEASURES

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

Section 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions, No information available
Protective Equipment and
Emergency Procedures

Environmental Precautions  Pay attention not to cause the influence on the
environment by discharging into rivers.
This product is water pollutant. Prevent soil
contamination, or the product from flowing into the
drain systems.

Decontamination/Absorption/Sweeping/Vacuuming/ Neutralization Collect the material into a disposal container by
sucking up or sweeping up.
Absorb spills with inert materials (such as dry sand or soil) and collect them into chemical–waste disposal container.

Cleansing the contaminated area thoroughly with water after removal.

Prevent flowing into drain, sewage, basement, and closed area.

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

Section 7 – HANDLING AND STORAGE
Handling
Technical Measures
Provide ventilation system and Use necessary personal protective equipment as described in “8. EXPOSURE CONTROLS AND PERSONAL 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.
Wash hands thoroughly after handling. Avoid swallowing. Avoid high temperature and direct sunlight. Refer to “10. STABILITY AND REACTIVITY”

Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION
Engineering Controls
A general proper ventilation is enough to control concentration in air.

Personal Protective Equipment
Respiratory Protection
Use a personal protective apparatus for respiratory organs whenever necessary.

Hand Protection
Use necessary personal protective gloves.

Eye Protection
Use an adequate personal eye protector.

Skin and Body Protection
Use the personal protective clothing and full face mask whenever necessary.

Specific Hygiene Measures
Wash hands thoroughly after handling.

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES
Appearance
Physical State
liquid

Colour
red

Odour
odorless

pH
No data available

Initial Boiling Point and Boiling Ranges
No information available
Flash Point  
Auto-Ignition  

Section 10 – STABILITY AND REACTIVITY  
Stability  
The material is stable under storage and handling conditions comprised with the regulations.  
Possibility of Hazardous Reaction  
Conditions to Avoid Hazardous Decomposition Products  
No data available

Section 11 – TOXICOLOGICAL INFORMATION  
Acute Toxicity  
No information available

Section 12 – ECOLOGICAL INFORMATION  
Environmental Hazards  
Ecotoxicity  
No information available

Section 13 – DISPOSAL CONSIDERATIONS  
Residual Waste  
For disposal, conform with the standards provided by related laws and local public bodies. Commission the authorized waste disposal company, or a local public body who conducts the disposal, to dispose of the material.  
Contaminated Container and Packaging  
Recycle containers after cleansing, or carry out the disposal under the related laws and regulations and the standards of the local governments.  
In case of disposal of empty containers, remove the content thoroughly.

Section 14 – TRANSPORT INFORMATION  
International Regulations  
Regulatory Information by Sea  
UN No.  
Marine Pollutant Regulatory Information by Air  
UN No.  
Not applicable

Regulations in Japan  
Regulatory Information by Road or Rail  
Regulatory Information by Sea  
UN No.  
Marine Pollutant Regulatory Information by Air  
UN No.  
Not applicable

Section 15 – REGULATORY INFORMATION  
Regulatory information with regard to this product in your country or in your region should be examined by your own responsibility.

Section 16 – OTHER INFORMATION  
Information Contact  
No information available
Other Property

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Safety Data Sheet (SDS)

Preparation Date 2013/06/04
Revision Date 2016/06/08

Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION
Product Name WPB30-C
Product Code WPB30C0001
Company Name PENTEL CO., LTD.
Address 7-2, KOAMICHO, NIHONBASHI, CHUO-KU, TOKYO
Company Contact QUALITY ASSURANCE DEPARTMENT I
Phone Number 048-928-6668
Emergency Phone 048-928-6668
Fax Number 048-928-9190
Mail Address hinpo@pentel.co.jp

Section 2 - HAZARDS IDENTIFICATION
GHS Classification
Health Hazards
Specific target organ toxicity (single exposure) Category 1 (respiratory apparatus, heart, kidney, central nervous system)
Specific target organ toxicity (repeated exposure) Category 1 (central nervous system, respiratory apparatus, heart)
Other hazards than mentioned above are Not applicable or No data available.

GHS Label Elements
Symbols

Signal Word Danger
Hazard Statements
H320 Causes eye irritation
H370 Causes damage to respiratory apparatus, heart, kidney, central nervous system
H372 Causes damage to respiratory apparatus, heart, central nervous system through prolonged or repeated exposure.

Precautional Statements
Prevention
Do not breathe mist, vapours and spray. (P26)

Precautionary Statements
Wash hands thoroughly after handling. (P264)
Wash eye thoroughly after handling. (P264)
Do not eat, drink or smoke when using this product. (P270)
Response IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)

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

Storage Store locked up. (P405)

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

Section 3 – COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name or Generic Name</th>
<th>Concentration or Its Ranges</th>
<th>Formula</th>
<th>ENCS No./ISHL No.</th>
<th>CAS RN</th>
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<tbody>
<tr>
<td>Ethylene Glycol</td>
<td>11.6%</td>
<td>HOCH₂CH₂OH</td>
<td>(2)–230</td>
<td>Existing 107–21–1</td>
</tr>
<tr>
<td>C.I. Pigment Blue 15:3</td>
<td>5.265%</td>
<td>(5)–3299,(5)–3300,(5)–5216</td>
<td>Existing 147–14–8</td>
<td></td>
</tr>
</tbody>
</table>

Impurities and/or Stabilizing Additives which Cor No information available

Section 4 – FIRST AID MEASURES

Inhalation If breathing is difficult, move affected person to the open air. Keep him or her at rest to allow easier breathing.

Wash with soap and plenty of water.

Eye Contact Wash eyes carefully for several minutes with water. Take off contact lenses if easily removed, and continue to wash eyes afterwards.

When the ocular stimulation lasts, Seek medical treatment and advice.

Ingestion Rinse a mouth. Don’t make vomit by force.

Get medical advice and attention if you feel unwell.

Section 5 – FIRE FIGHTING MEASURES

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

Section 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Environmental Precautions Pay attention not to cause the influence on the environment by discharging into rivers. This product is water pollutant. Prevent soil contamination, or the product from flowing into the drain systems.
Decontamination/Absorption/Sweeping/Vacuming/Neutralization

Collect the material into a disposal container by sucking up or sweeping up.

Absorb spills with inert materials (such as dry sand or soil) and collect them into chemical-waste disposal container.

Cleansing the contaminated area thoroughly with water after removal.

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

Section 7 – HANDLING AND STORAGE

Handling

Technical Measures

Provide ventilation system and Use necessary personal protective equipment as described in “8. EXPOSURE CONTROLS AND PERSONAL 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.

Wash hands thoroughly after handling.

Avoid swallowing

Avoid high temperature and direct sunlight.

Prevents Handling of Imcompatible 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.

Imcompatible Substances or Mixtures

Refer to “10. STABILITY AND REACTIVITY”

Storage Conditions

Have containers keep away from direct sunlight and heat.

Keep away from heat.

Store locked up.

Material Used in Packaging/Container

Packaging materials and containers are not legislated, but use sturdy and closed-type containers.

Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

A general proper ventilation is enough to control concentration in air.

Personal Protective Equipment

Respiratory Protection

Use a personal protective apparatus for respiratory organs whenever necessary.

Hand Protection

Use necessary personal protective gloves.

Eye Protection

Use an adequate personal eye protector.

Skin and Body Protection

Use the personal protective clothing and full face mask whenever necessary.

Specific Hygiene Measures

Wash hands thoroughly after handling.

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State: liquid

Colour: blue

Odour: odorless
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 No data available
Products No data available

Section 11 – TOXICOLOGICAL INFORMATION
Acute Toxicity No information available

Section 12 – ECOLOGICAL INFORMATION
Environmental Hazards No information available
Ecotoxicity No information available

Section 13 – DISPOSAL CONSIDERATIONS
Residual Waste For disposal, conform with the standards provided by related laws and local public bodies.
Commission the authorized waste disposal company, or a local public body who conducts the disposal, to dispose of the material.
Contaminated Container and Packaging Recycle containers after cleansing, or carry out the disposal under the related laws and regulations and the standards of the local governments.
In case of disposal of empty containers, remove the content thoroughly.

Section 14 – TRANSPORT INFORMATION
International Regulations Regulatory Information by Sea UN No. Not applicable
Marine Pollutant Regulatory Information by Air UN No. Not applicable
Regulations in Japan Regulatory Information by Road or Rail Not applicable
Regulatory Information by Sea UN No. Not applicable
Marine Pollutant Regulatory Information by Air UN No. Not applicable

Section 15 – REGULATORY INFORMATION
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Section 16 – OTHER INFORMATION
Information Contact
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