Safety Data Sheet (SDS)

Preparation Date 2012/10/03
Revision Date 2016/01/12

Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier ODF2—A
Product Code ODF2A00001
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 and Restriction on Use ink

(E)NN50.60–A, NX(N)50.60–A, NR2–A, N850.860–A, N860INK–A, NX(N)S15–A, NR3.4–A, NXSINK–A

Section 2 – HAZARDS IDENTIFICATION

GHS Classification

Physicochemical Hazards Flammable liquids Category 2
Health Hazards Acute toxicity – inhalation (vapour) Category 4
Serious eye damage/eye irritation Category 1
Sensitization – respiratory Category 1
Sensitization – skin Category 1
Germ cell mutagenicity Category 1B
Reproductive toxicity Category 1A
Specific target organ toxicity (single exposure) Category 2(kidney, systemic toxicity, central nervous system)
Specific target organ toxicity (single exposure) Category 3(narcotic effect, respiratory tract irritation)
Specific target organ toxicity (repeated exposure) Category 1(liver)
Specific target organ toxicity (repeated exposure) Category 2(cenral nervous system)

Environmental Hazards Hazard to the aquatic environment (acute hazard) Category 3
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 H225 Highly flammable liquid and vapour
H318 Causes serious eye damage
Chemical Name or Generic Name | Concentration or Its Ranges | Formula | ENCS No./ISHL No. ENCS No. | ISHL No. | CAS RN
---|---|---|---|---|---
Ethanol | 49.25% | CH3CH2OH | (2)–202 | Existing | 64–17–5
Isopropanol | 7.72% | CH3CH(OH)CH3 | (2)–207 | 2–(8)–319 | 67–63–0
<table>
<thead>
<tr>
<th>Substance</th>
<th>Concentration</th>
<th>Identification</th>
<th>Existing Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>0.63%</td>
<td>CH3COCH3</td>
<td>(2)–542</td>
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<td>1-Propanol</td>
<td>14%</td>
<td>CH3CH2CH2OH</td>
<td>(2)–207</td>
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<tr>
<td>Benzyl alcohol</td>
<td>5%</td>
<td>C7H5O</td>
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<td>Alkyl(C10–16)benzenesulfonic acid</td>
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<td>Unknown</td>
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<tr>
<td>Rosin</td>
<td>7%</td>
<td>(7)–935</td>
<td>Existing 8050–09–7</td>
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</table>

Impurities and/or Stabilizing Additives which Contribute to the

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 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.

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

Section 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions,
Protective Equipment and Emergency Procedures
Wear appropriate personal protective equipment (Refer to “Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION”) and avoid inhalation or contact with eyes and skin.

Environmental
Do not release into the environment.
Pay attention not to cause the influence on the environment by discharging into rivers.
This product is water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.
Stop leak if you can do it without risk.

Methods and Equipment for Containment and Cleaning up
Small spills; cover with DRY earth, DRY sand, or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain.
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
Prevention Measures for Secondary Accidents
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.
Removes all ignition sources promptly. (Prohibition of smoking, sparks, and flames in the surrounding area).
Prevent flowing into drain, sewage, basement, and closed area.
Remove thoroughly since the smooth and slippery surface will be formed on the floor.

Section 7 – HANDLING AND STORAGE

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

Precautions for Safe Handling
Do not eat, drink or smoke when using this product.
Wash hand thoroughly after handling.
Avoid breathing mist, vapours and spray.
Avoid swallowing.
Avoid contact with skin.
Use exhaust ventilation.
Avoid contact with eyes.
Handle at a well-ventilated place.
Protect from high temperature and direct sunlight.

Prevents Handling of Imcompatible Substances or Mixtures
Refer to “Section 10 – STABILITY AND REACTIVITY”.

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

Material Used in Packaging/Container
Use containers prescribed in the “Fire Service Law (Japan)” and the “UN Transport Regulations”.

Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls
Good general ventilation should be sufficient to control airborne levels.

Personal Protective Equipment
Respiratory Protection
Wear an adequate protective apparatus for respiratory organs.

Hand Protection
Wear protective gloves.

Eye Protection
Wear eye protection.
Protection glasses (ordinary glasses, ordinary glasses with side shields, and goggles).

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES
<table>
<thead>
<tr>
<th>Appearance</th>
<th>Physical State</th>
<th>liquid</th>
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</thead>
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<tr>
<td>Form</td>
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<tr>
<td>Colour</td>
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<td>Odour</td>
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<tr>
<td>pH</td>
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<td>Melting Point/Freezing Point</td>
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<td>Initial Boiling Point and Boiling Ranges</td>
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<td>Flash Point</td>
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<td>Evaporation Rate</td>
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<td>Flammability (solid, gas)</td>
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<tr>
<td>Flammability or Explosive Lower Limit</td>
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<tr>
<td>Upper Limit</td>
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<td></td>
</tr>
<tr>
<td>Vapour Pressure</td>
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<tr>
<td>Vapour Density</td>
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<td>Specific Gravity (Density)</td>
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<td>Partition Coefficient : n−</td>
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<td>Octanol/Water</td>
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<td>Auto-Ignition</td>
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<tr>
<td>Decomposition</td>
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</tr>
<tr>
<td>Temperature</td>
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<tr>
<td>Kinematic viscosity</td>
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</table>

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
UN No. 1263
Proper Shipping Name. PAINT
Class 3
Packing Group II
Marine Pollutant Not applicable
Transport in bulk Not applicable according to MARPOL 73/78,Annex II, and the IBC code
Regulatory Information by Air
UN No. 1263
Proper Shipping Name. PAINT
Class 3
Packing Group II
Regulatory Information in Japan
Conform to the provisions of the Ship Safety Law.
Regulatory Information by Sea
UN No. 1263
Proper Shipping Name. PAINT
Class 3
Packing Group II
Marine Pollutant Not applicable
Transport in bulk Not applicable according to MARPOL 73/78,Annex II, and the IBC code
Regulatory Information by Air
UN No. 1263
Proper Shipping Name. PAINT
Class 3
Packing Group II
Regulatory Information in Japan
Conform to the provisions of the Ship Safety Law.
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)

Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Chemical Identifier</th>
<th>ODF2—B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Code</td>
<td>ODF2B00001</td>
</tr>
<tr>
<td>Company Name</td>
<td>PENTEL CO., LTD.</td>
</tr>
<tr>
<td>Address</td>
<td>7–2, KOAMICHO, NIIHONBASHI, CHUO–KU, TOKYO</td>
</tr>
<tr>
<td>Company Contact</td>
<td>QUALITY ASSURANCE DEPARTMENT I</td>
</tr>
<tr>
<td>Phone Number</td>
<td>048–928–6668</td>
</tr>
<tr>
<td>Fax Number</td>
<td>048–928–9190</td>
</tr>
<tr>
<td>Mail Address</td>
<td><a href="mailto:hinpo@pentel.co.jp">hinpo@pentel.co.jp</a></td>
</tr>
<tr>
<td>Emergency Phone Number</td>
<td>048–928–6668</td>
</tr>
<tr>
<td>Recommended Use and Restriction on Use</td>
<td>ink</td>
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</tbody>
</table>


Section 2 – HAZARDS IDENTIFICATION

GHS Classification

<table>
<thead>
<tr>
<th>Physicochemical Hazards</th>
<th>Flammable liquids Category 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health Hazards</td>
<td>Acute toxicity – inhalation (vapour) Category 4</td>
</tr>
<tr>
<td></td>
<td>Serious eye damage/eye irritation Category 2A</td>
</tr>
<tr>
<td></td>
<td>Germ cell mutagenicity Category 1B</td>
</tr>
<tr>
<td></td>
<td>Reproductive toxicity Category 1A</td>
</tr>
<tr>
<td></td>
<td>Specific target organ toxicity (single exposure) Category 1 (kidney, systemic toxicity, central nervous system)</td>
</tr>
<tr>
<td></td>
<td>Specific target organ toxicity (single exposure) Category 3 (narcotic effect, respiratory tract irritation)</td>
</tr>
<tr>
<td></td>
<td>Specific target organ toxicity (repeated exposure) Category 1 (liver)</td>
</tr>
<tr>
<td></td>
<td>Specific target organ toxicity (repeated exposure) Category 2 (blood vessel, central nervous system, spleen)</td>
</tr>
</tbody>
</table>

Environmental Hazards

| Hazard to the aquatic environment (acute hazard) Category 3 |
| 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

H225 Highly flammable liquid and vapour
H412 Harmful to aquatic life with long lasting effects
H319 Causes serious eye irritation
H332 Harmful if inhaled
H335 May cause respiratory irritation
H336 May cause drowsiness and dizziness
H340 May cause genetic defects
H360 May damage fertility or the unborn child
H370 Causes damage to kidney, systemic toxicity, central nervous system
H372 Causes damage to liver through prolonged or repeated exposure
H373 May cause damage to blood vessel, central nervous system, spleen through prolonged or repeated exposure

Precautionary Statements
Prevention Wear protective gloves, eye protection and face protection. (P280)

Precautionary Statements
Keep container tightly closed. (P233)
Avoid breathing mist, vapours and spray. (P261)
Keep cool. (P235)
Wash hand 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)

Response IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. (P304+P340)

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)
Get medical advice and attention if you feel unwell. (P314)
If skin irritation or rash occurs, get medical advice and attention. (P333+P313)
If eye irritation persists: Get medical advice and attention. (P337+P313)

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

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>
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<tbody>
<tr>
<td>Ethanol</td>
<td>70.59%</td>
<td>CH3CH2OH</td>
<td>(2)–202 Existing</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>64–17–5</td>
</tr>
<tr>
<td>Isopropanol</td>
<td>11.06%</td>
<td>CH3CH(OH)CH3</td>
<td>(2)–207 2–(8)–319</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>67–63–0</td>
</tr>
<tr>
<td>Acetone</td>
<td>0.91%</td>
<td>CH3COCH3</td>
<td>(2)–542 Existing</td>
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<td></td>
<td></td>
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<td>67–64–1</td>
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<tr>
<td>Benzyl alcohol</td>
<td>5%</td>
<td>C7H5O</td>
<td>(3)–1011 Existing</td>
</tr>
<tr>
<td></td>
<td></td>
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<td>100–51–6</td>
</tr>
</tbody>
</table>
Impurities and/or Stabilizing Additives which Contribute to the

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 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.

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

Section 6 – ACCIDENTAL RELEASE MEASURES
Personal Precautions, Protective Equipment and Emergency Procedures Wear appropriate personal protective equipment (Refer to “Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION”) and avoid inhalation or contact with eyes and skin.

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

Section 7 – HANDLING AND STORAGE

<table>
<thead>
<tr>
<th>Handling</th>
<th>Technical Measures</th>
<th>Precautions for Safe Handling</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Provide ventilation system and use necessary personal protective equipment as described in “Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION”.</td>
<td>Do not eat, drink or smoke when using this product. Wash hand thoroughly after handling. Avoid breathing mist, vapours and spray. Avoid swallowing. Avoid contact with skin. Use exhaust ventilation. Avoid contact with eyes. Handle at a well-ventilated place. Protect from high temperature and direct sunlight. Refer to “Section 10 – STABILITY AND REACTIVITY”.</td>
</tr>
<tr>
<td>Precautions for</td>
<td></td>
<td>Wash hand thoroughly after handling.</td>
</tr>
<tr>
<td>Safe Handling</td>
<td></td>
<td>Wash hand thoroughly after handling.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Wash hand thoroughly after handling.</td>
</tr>
</tbody>
</table>

Storage Precautionary Statements

<table>
<thead>
<tr>
<th>Technical Measures</th>
<th>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 in a tightly closed container. Store locked up.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Precautions for Incompatible Substances or Mixtures</td>
<td>Use containers prescribed in the “Fire Service Law (Japan)” and the “UN Transport Regulations”.</td>
</tr>
</tbody>
</table>

Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>Engineering Controls</th>
<th>Personal Protective Equipment</th>
<th>Respiratory Protection</th>
<th>Hand Protection</th>
<th>Eye Protection</th>
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<tbody>
<tr>
<td>Control</td>
<td>Personal Protective Equipment</td>
<td>Respiratory Protection</td>
<td>Hand Protection</td>
<td>Eye Protection</td>
</tr>
<tr>
<td>Good general ventilation should be sufficient to control airborne levels.</td>
<td>Wear an adequate protective apparatus for respiratory organs. Wear protective gloves. Wear eye protection. Protection glasses (ordinary glasses, ordinary glasses with side shields, and goggles).</td>
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Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Physical State</th>
<th>Form</th>
<th>Colour</th>
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<table>
<thead>
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</table>
Melting Point/Freezing Point
Initial Boiling Point and Boiling Ranges
Flash Point
Evaporation Rate
Flammability (solid, gas)
Flammability or Explosive Limits
Vapour Pressure
Vapour Density
Specific Gravity (Density)
Partition Coefficient : n-
Octanol/Water
Auto-Ignition
Decomposition
Temperature
Viscosity
Kinematic viscosity

Section 10 – STABILITY AND REACTIVITY
Reactivity
Chemical stability
Possibility of Hazardous Reaction
Conditions to Avoid
Incompatible Substances
or Mixtures
Hazardous Decomposition
Products

Section 11 – TOXICOLOGICAL INFORMATION
Acute Toxicity
Skin Corrosion/Irritation
Serious eye damage/eye irritation
Respiratory or Skin Sensitization
Germ Cell Mutagenicity
Carcinogenicity
Reproductive Toxicity
Specific target organ toxicity (single exposure)
Specific target organ toxicity (repeated exposure)
Aspiration Hazard

Section 12 – ECOLOGICAL INFORMATION
Hazard to the aquatic environment (acute)
Hazard to the aquatic environment (long-term hazard)
Hazard to the ozone layer

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

<table>
<thead>
<tr>
<th>International Regulations</th>
<th>Regulatory Information by Sea</th>
<th>Regulatory Information by Air</th>
<th>Regulations in Japan</th>
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<td>UN No.</td>
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<tr>
<td>Packing Group</td>
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<td>II</td>
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<tr>
<td>Marine Pollutant</td>
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<tr>
<td>Transport in bulk according to MARPOL 73/78, Annex II, and the IBC code</td>
<td>Conform to the provisions of ICAO/IATA.</td>
<td>Conform to the provisions of the Ship Safety Law.</td>
<td>Conform to the provisions of the Ship Safety Law.</td>
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</tbody>
</table>

Emergency Response Guide Number
Not applicable
Section 16 – OTHER INFORMATION

Information Contact

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.

Other Property
Safety Data Sheet (SDS)

Preparation Date  2012/10/03
Revision Date  2016/01/12

Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier   ODF2—C
Product Code   ODF2C00001
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 and Restriction on Use   ink


Section 2 – HAZARDS IDENTIFICATION

GHS Classification

Physicochemical Hazards   Flammable liquids Category 2
Health Hazards   Acute toxicity – inhalation (vapour) Category 4
  Serious eye damage/eye irritation Category 2B
  Germ cell mutagenicity Category 1B
  Reproductive toxicity Category 1A
  Specific target organ toxicity (single exposure)
    Category 2(kidney, systemic toxicity, central nervous system)
  Specific target organ toxicity (single exposure)
    Category 3(narcotic effect, respiratory tract irritation)
  Specific target organ toxicity (repeated exposure)
    Category 1(liver)
  Specific target organ toxicity (repeated exposure)
    Category 2(critical nervous system)
Environmental Hazards   Hazard to the aquatic environment (acute hazard) Category 3
  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
   H225 Highly flammable liquid and vapour
   H412 Harmful to aquatic life with long lasting effects
H332 Harmful if inhaled
H335 May cause respiratory irritation
H336 May cause drowsiness and dizziness
H340 May cause genetic defects
H360 May damage fertility or the unborn child
H371 May cause damage to kidney, systemic toxicity, central nervous system
H372 Causes damage to liver through prolonged or repeated exposure
H373 May cause damage to central nervous system through prolonged or repeated exposure

Precautionary Statements
Prevention Wear protective gloves, eye protection and face protection. (P280)

Precautionary Statements
Keep container tightly closed. (P233)
Avoid breathing mist, vapours and spray. (P261)
Keep cool. (P235)
Wash hand 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)

Response
IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. (P304+P340)

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)
Get medical advice and attention if you feel unwell. (P314)
If skin irritation or rash occurs, get medical advice and attention. (P333+P313)
If eye irritation persists: Get medical advice and attention. (P337+P313)

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

Storage
Store locked up. (P405)

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>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>56.73%</td>
<td>CH₃CH₂OH</td>
<td>(2)–202 Existing</td>
<td>64–17–5</td>
</tr>
<tr>
<td>Isopropanol</td>
<td>8.89%</td>
<td>CH₃CH(OH)CH₃</td>
<td>(2)–207 2–(8)–319</td>
<td>67–63–0</td>
</tr>
<tr>
<td>Acetone</td>
<td>0.73%</td>
<td>CH₃COCH₃ 3</td>
<td>(2)–542 Existing</td>
<td>67–64–1</td>
</tr>
<tr>
<td>Benzyl alcohol</td>
<td>5%</td>
<td>C₇H₅O</td>
<td>(3)–1011 Existing</td>
<td>100–51–6</td>
</tr>
<tr>
<td>1–ethoxy–2–propanol</td>
<td>10%</td>
<td></td>
<td>(7)–97 Existing</td>
<td>1569–02–4</td>
</tr>
<tr>
<td>Section 4 – FIRST AID MEASURES</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>--------------------------------</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inhalation</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>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.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Skin Contact</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wash with plenty of soap and water. If skin irritation or rash occurs, get medical advice and attention.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eye Contact</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>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.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ingestion</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Rinse mouth. Do NOT induce vomiting. Get medical advice and attention if you feel unwell.</td>
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<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Section 5 – FIRE FIGHTING MEASURES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extinguishing Media</td>
</tr>
<tr>
<td>Dry chemicals, CO2, water spray or regular foam.</td>
</tr>
<tr>
<td>Protection of Fire Figther</td>
</tr>
<tr>
<td>In fire fighting, wear respiratory protection and chemical protective clothing.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Section 6 – ACCIDENTAL RELEASE MEASURES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Personal Precautions,</td>
</tr>
<tr>
<td>Protective Equipment and Emergency Procedures</td>
</tr>
<tr>
<td>Wear appropriate personal protective equipment (Refer to “Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION”) and avoid inhalation or contact with eyes and skin.</td>
</tr>
<tr>
<td>Environmental</td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td>Methods and Equipment for Containment and Cleaning up</td>
</tr>
<tr>
<td>Small spills; cover with DRY earth, DRY sand, or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain. 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.</td>
</tr>
<tr>
<td>Prevention Measures for Secondary Accidents</td>
</tr>
<tr>
<td>Removes all ignition sources promptly. (Prohibition of smoking, sparks, and flames in the surrounding area).</td>
</tr>
</tbody>
</table>
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
Do not eat, drink or smoke when using this product.
Wash hand thoroughly after handling.
Avoid breathing mist, vapours and spray.
Avoid swallowing.
Avoid contact with skin.
Use exhaust ventilation.
Avoid contact with eyes.
Handle at a well-ventilated place.
Protect from high temperature and direct sunlight.

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”.
Have containers keep away from direct sunlight and heat.
Keep away from heat.
Store in a tightly closed container.
Store locked up.

Material Used in Packaging/Container Law (Japan)” and the “UN Transport Regulations”.

Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls
Good general ventilation should be sufficient to control airborne levels.

Personal Protective Equipment
Respiratory Protection
Wear an adequate protective apparatus for respiratory organs.

Hand Protection
Wear protective gloves.

Eye Protection
Wear eye protection.
Protection glasses (ordinary glasses, ordinary glasses with side shields, and goggles).

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance
Physical State
liquid

Form
liquid

Colour
blue

Odour
alcoholic

Odour threshold
No data available

pH
No data available

Melting Point/Freezing Point
No data available
Initial Boiling Point and Boiling Ranges
Flash Point 7.4°C (Tag Closed Cup)
Evaporation Rate No data available
Flammability (solid, gas) No data available
Flammability or Explosive Lower Limit 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- No data available
Octanol/Water Reaction
Auto-Ignition No data available
Decomposition No data available
Temperature Viscosity No data available
Viscosity Kinematic viscosity No data available

Section 10 – STABILITY AND REACTIVITY
Reactivity No data available
Chemical stability No data available
Possibility of Hazardous Reaction
Conditions to Avoid No data available
Incompatible Substances No data available
or Mixtures Hazardous Decomposition No data available
Products

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.
Contaminated Container and Packaging

Commission a waste disposal company, or a local public body who are licensed by local or regional government, to dispose of the material.
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
UN No. 1263
Proper Shipping PAINT
Class 3
Packing Group II
Marine Pollutant Not applicable
Transport in bulk Not applicable according to MARPOL 73/78,Annex II, and the IBC code

Regulatory Information by Air
UN No. 1263
Proper Shipping PAINT
Class 3
Packing Group II

Regulations in Japan

Regulatory Information by Road or Rail

Regulatory Information by Sea
UN No. 1263
Proper Shipping PAINT
Name.
Class 3
Packing Group II
Marine Pollutant Not applicable
Transport in bulk Not applicable according to MARPOL 73/78,Annex II, and the IBC code

Regulatory Information by Air
UN No. 1263
Proper Shipping PAINT
Name.
Class 3
Packing Group II

Emergency Response Guide Number

Conform to the provisions of IMO.

Conform to the provisions of ICAO/IATA.

Conform to the provisions of the Ship Safety Law.

Conform to the provisions of the Ship Safety Law.

No information available
Other Property

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