Safety Data Sheet (SDS)

Preparation Date 2013/02/14
Revision Date 2018/10/09

Section 1 - CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier OPF3—W
Product Code OPF3W00001
Company Name PENTEL CO., LTD.
Address 7–2, KOAMICHO, NIHONBASHI, CHUO–KU, TOKYO
Company Contact QUALITY ASSURANCE DEPARTMENT I
Phone Number 03–5695–7210
Fax Number 03–5645–8204
Mail Address hinpo@pentel.co.jp
Emergency Phone Number 03–5695–7210
Recommended Use and Restriction on Use ink

Section 2 – HAZARDS IDENTIFICATION

GHS Classification

Physicochemical Hazards Flammable liquids Category 3
Health Hazards Acute toxicity (Inhalation: vapour) Category 3
Serious eye damage/eye irritation Category 1
Sensitization – respiratory Category 1
Sensitization – skin Category 1
Carcinogenicity Category 2
Reproductive toxicity Category 2
Specific target organ toxicity (single exposure) Category 3 (narcotic effect, respiratory tract irritation)
Specific target organ toxicity (repeated exposure) Category 1 (respiratory apparatus)

Environmental Hazards Hazardous to the aquatic environment (acute) Category 3
Hazardous to the aquatic environment (long–term) Category 3
Other hazards than mentioned above are Not applicable or Classification not possible.

GHS Label Elements

Symbols

Signal Word Danger
Hazard Statements
H331 Toxic if inhaled
H372 Causes damage to respiratory apparatus through prolonged or repeated exposure
H226 Flammable liquid and vapour
H318 Causes serious eye damage
H317 May cause an allergic skin reaction
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335 May cause respiratory irritation
Precautionary Statements

Prevention
Keep container tightly closed.(P233)

Precautionary Statements
Keep cool.(P235)
Use only non-sparking tools.(P242)
Avoid breathing mist, vapours and spray.(P261)
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)
Avoid release to the environment.(P273)
Wear protective gloves, eye protection and face protection.(P280)

Response
IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.(P304+P340)
Get medical advice and attention if you feel unwell.(P314)
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.(P305+P351+P338)
If eye irritation persists: Get medical advice and attention.(P337+P313)
If skin irritation or rash occurs, get medical advice and attention.(P333+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>
<th>CAS RN</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Propanol</td>
<td>9.8%</td>
<td>CH3OH2C H2O</td>
<td>(2)–207</td>
<td>Existing</td>
</tr>
<tr>
<td>1-ethoxy-2-Propanol</td>
<td>39.1%</td>
<td></td>
<td>(7)–97</td>
<td>Existing</td>
</tr>
<tr>
<td>Ethyl lactate</td>
<td>14%</td>
<td>C2H5CH(O OC2H 5)</td>
<td>(2)–1371</td>
<td>Existing</td>
</tr>
<tr>
<td>Benzyl alcohol</td>
<td>2.8%</td>
<td>C7H5O</td>
<td>(3)–1011</td>
<td>Existing</td>
</tr>
<tr>
<td>Rosin</td>
<td>4.2%</td>
<td>Unknown</td>
<td>Unknown</td>
<td>8050–09–7</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>21%</td>
<td>TiO2</td>
<td>(1)–558 (5)–5225</td>
<td>Existing</td>
</tr>
<tr>
<td>Cellulose nitrate</td>
<td>4.76%</td>
<td></td>
<td>(8)–176</td>
<td>Existing</td>
</tr>
</tbody>
</table>

H351 Suspected of causing cancer
H361 Suspected of damaging fertility or the unborn child
H412 Harmful to aquatic life with long lasting effects
H336 May cause drowsiness or dizziness
H351 Suspected of causing cancer
H361 Suspected of damaging fertility or the unborn child
H412 Harmful to aquatic life with long lasting effects
Impurities and/or Stabilizing Additives which Contribute to the

Section 4 – FIRST AID MEASURES
Inhalation
Remove person to fresh air and keep comfortable for breathing.
Get medical advice and attention if you feel unwell.

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

Eye Contact
Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do.
Continue rinsing.
When the ocular stimulation lasts, Seek medical treatment and advice.

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

Section 5 – FIRE FIGHTING MEASURES
Extinguishing Media
Dry chemicals, CO2, fog, alcohol-resistant foam or sand.

Unsuitable Extinguishing Media
Straight streams.

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

Section 6 – ACCIDENTAL RELEASE MEASURES
Personal Precautions, Protective Equipment and Emergency Procedures
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.

Methods and Equipment for Containment and Cleaning up
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
Prevent flowing into drain, sewage, basement, and closed area.
Removes all ignition sources promptly. (Prohibition of smoking, sparks, and flames in the surrounding 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

Use only outdoors or in a well-ventilated area.

Do not eat, drink or smoke when using this product.
Wash hand thoroughly after handling.
Avoid breathing mist, vapours and spray.
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

Conditions for Safe Storage

Refer to "Section 10 – STABILITY AND REACTIVITY".

Have containers keep away from direct sunlight and heat.
Keep away from heat.
Store in a well-ventilated and cool place keeping container tightly closed.
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

Use personal gloves as required.

Eye Protection

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

Skin and Body Protection

Use personal protective clothing and face protection as required.

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State: liquid

Form: liquid

Colour: white

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: 35.2°C (Tag Closed Cup)
Evaporation Rate
Flammability (solid, gas)
Flammability or Explosive Limits
Lower Limit
Upper Limit
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 Sensitization
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
Hazardous to the aquatic environment (acute)
Hazardous to the aquatic environment (long-term)
Hazardous 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

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

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

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**

<table>
<thead>
<tr>
<th>Regulatory Information by Sea</th>
<th>Conform to the provisions of IMO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN No.</td>
<td>1263</td>
</tr>
<tr>
<td>Proper Shipping Name.</td>
<td>PAINT</td>
</tr>
<tr>
<td>Class</td>
<td>3</td>
</tr>
<tr>
<td>Packing Group</td>
<td>III</td>
</tr>
<tr>
<td>Marine Pollutant</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Transport in bulk according to MARPOL 73/78,Annex II,and the IBC code</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

**Regulatory Information by Air**

| UN No.                      | 1263                             |
| Proper Shipping Name.       | PAINT                            |
| Class                       | 3                                |
| Packing Group               | III                              |

**Regulations in Japan**

**Conform to the provisions of the Civil Aeronautics Law.**

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

**Regulatory Information by Air**

| UN No.                      | 1263                             |
| Proper Shipping Name.       | PAINT                            |
| Class                       | 3                                |
| Packing Group               | III                              |

**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.

<table>
<thead>
<tr>
<th>Section 16 – OTHER INFORMATION</th>
<th>No information available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Information Contact</td>
<td>This information is furnished without warranty express or implied.</td>
</tr>
<tr>
<td>Other Property</td>
<td>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.</td>
</tr>
</tbody>
</table>