Safety Data Sheet (SDS)

Preparation Date 2012/10/25
Revision Date 2016/02/18

Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Chemical Identifier</th>
<th>MW-A1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Code</td>
<td>MWA1000002</td>
</tr>
<tr>
<td>Company Name</td>
<td>PENTEL CO., LTD.</td>
</tr>
<tr>
<td>Address</td>
<td>7-2, KOAMICHO, NIHONBASHI, 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>
</tr>
</tbody>
</table>

Section 2 – HAZARDS IDENTIFICATION

GHS Classification

<table>
<thead>
<tr>
<th>Physicochemical Hazards</th>
<th>Flammable liquids Category 2</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Health Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serious eye damage/eye irritation Category 2A</td>
</tr>
<tr>
<td>Germ cell mutagenicity Category 1B</td>
</tr>
<tr>
<td>Carcinogenicity Category 2</td>
</tr>
<tr>
<td>Reproductive toxicity Category 1A</td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure) Category 1(kidney, systemic toxicity, central nervous system)</td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure) Category 3(narcotic effect, respiratory tract irritation)</td>
</tr>
<tr>
<td>Specific target organ toxicity (repeated exposure) Category 1(liver)</td>
</tr>
<tr>
<td>Specific target organ toxicity (repeated exposure) Category 2(blood vessel, central nervous system, lung, spleen)</td>
</tr>
<tr>
<td>Other hazards than mentioned above are Not applicable or No data available.</td>
</tr>
</tbody>
</table>

GHS Label Elements

<table>
<thead>
<tr>
<th>Symbols</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Signal Word</th>
<th>Danger</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazard Statements</td>
<td></td>
</tr>
<tr>
<td>H225 Highly flammable liquid and vapour</td>
<td></td>
</tr>
<tr>
<td>H319 Causes serious eye irritation</td>
<td></td>
</tr>
<tr>
<td>H335 May cause respiratory irritation</td>
<td></td>
</tr>
<tr>
<td>H336 May cause drowsiness and dizziness</td>
<td></td>
</tr>
<tr>
<td>H340 May cause genetic defects</td>
<td></td>
</tr>
<tr>
<td>H351 Suspected of causing cancer</td>
<td></td>
</tr>
<tr>
<td>H360 May damage fertility or the unborn child</td>
<td></td>
</tr>
</tbody>
</table>
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, lung, spleen through prolonged or repeated exposure

Precautionary Statements
Prevention
Avoid breathing gas. (P261)

Precautionary Statements
Avoid breathing dust and fume. (P261)
Wear protective gloves, eye protection and face protection. (P280)
Keep container tightly closed. (P233)
Do not breathe mist, vapours and spray. (P260)
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)
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. ENCS No. ISHL No.</th>
<th>CAS RN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon black</td>
<td>3.43%</td>
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<td>(5)–3328, (5)–5222</td>
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</tr>
<tr>
<td>Ethanol</td>
<td>44.79%</td>
<td>CH3CH2OH</td>
<td>(2)–202</td>
<td>Existing</td>
</tr>
<tr>
<td>Isopropanol</td>
<td>37.96%</td>
<td>CH3CH(OH)CH3</td>
<td>(2)–207</td>
<td>2–(8)–319</td>
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<tr>
<td>Acetone</td>
<td>0.58%</td>
<td>CH3COCH3</td>
<td>(2)–542</td>
<td>Existing</td>
</tr>
</tbody>
</table>
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
Take off or dispose of all polluted clothes.
Immediately rinse skin with water.
Get medical advice and attention if you feel unwell.
Wash with plenty of soap and water.
If skin irritation or rash occurs, get medical advice and attention.

Eye Contact
Call a doctor if you feel unwell.
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 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.
Prevention Measures for Secondary Accidents

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.
Do not breathe 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

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).

Skin and Body Protection
Wear face protection.
Use personal protective clothing and face protection as required.

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State
liquid

Form
liquid
<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>black</td>
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<tr>
<td>Odour</td>
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<tr>
<td>pH</td>
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<td>Initial Boiling Point and Banging Ranges</td>
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<td>Flash Point</td>
<td>14.0°C (Tag Closed Cup)</td>
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<td>Evaporation Rate</td>
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<td>Flammability (solid, gas)</td>
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<td>Flammability or Explosive Limits</td>
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<td>Vapour Density</td>
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<td>Partition Coefficient : n-</td>
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<td>Octanol/Water</td>
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<tr>
<td>Auto-Ignition</td>
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</tr>
<tr>
<td>Decomposition</td>
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<tr>
<td>Temperature</td>
<td></td>
</tr>
<tr>
<td>Viscosity</td>
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</tr>
<tr>
<td>Kinematic viscosity</td>
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<tr>
<td>Flammability or Explosive Limits</td>
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</table>

**Section 10 – STABILITY AND REACTIVITY**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Reactivity</td>
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<td>Chemical stability</td>
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<td>Possibility of Hazardous Reaction</td>
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<tr>
<td>Conditions to Avoid</td>
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</tr>
<tr>
<td>Incompatible Substances or Mixtures</td>
<td>No data available</td>
</tr>
<tr>
<td>Hazardous Decomposition, Products</td>
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</table>

**Section 11 – TOXICOLOGICAL INFORMATION**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Acute Toxicity</td>
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<tr>
<td>Skin Corrosion/Irritation</td>
<td>No data available</td>
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<tr>
<td>Serious eye damage/eye irritation</td>
<td>No data available</td>
</tr>
<tr>
<td>Respiratory or Skin Sensitization</td>
<td>No data available</td>
</tr>
<tr>
<td>Germ Cell Mutagenicity</td>
<td>No data available</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>No data available</td>
</tr>
<tr>
<td>Reproductive Toxicity</td>
<td>No data available</td>
</tr>
<tr>
<td>Specific target organ toxicity</td>
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</tr>
<tr>
<td>Specific target organ toxicity</td>
<td>No data available</td>
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<tr>
<td>Aspiration Hazard</td>
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</tbody>
</table>

**Section 12 – ECOLOGICAL INFORMATION**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazard to the aquatic environment</td>
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</tr>
</tbody>
</table>
Hazard to the aquatic environment (long-term hazard)
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 Class 3
Packing Group II
Marine Pollutant Transport in bulk according to MARPOL 73/78,Annex II,and the IBC code
Not applicable

Conform to the provisions of IMO.

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

Conform to the provisions of ICAO/IATA.

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

Conform to the provisions of the Ship Safety Law.

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

Conform to the provisions of the Ship Safety Law.
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
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 2012/10/25
Revision Date 2016/02/18

Section 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION
Product Name MW–B4
Product Code MWB4000002
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
Recommended Use ink
Use EMWL5W,6W, EMWLM,S, MWL5S,6S, MWL5M, MWL6, MW5S, MWXN5M,6M, XMWR2, MW5M,60M, MWR1, MWINK, LMWINK, MW5F, MW5W, MW6–B

Section 2 – HAZARDS IDENTIFICATION
GHS Classification

Physicochemical Hazards Flammable liquids Category 2
Health Hazards Serious eye damage/eye irritation Category 2A
Germ cell mutagenicity Category 1B
Reproductive toxicity Category 1A
Specific target organ toxicity(single exposure) Category 1(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(central nervous system, spleen, blood vessel)
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
H319 Causes serious eye irritation
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.

Precautional Statements
Prevention
Keep container tightly closed. (P233)

Precautionary Statements
Keep cool. (P235)
Do not breathe mist, vapours and spray. (P260)
Wash hands thoroughly after handling. (P264)
Do not eat, drink or smoke when using this product. (P270)
Use only outdoors or in a well-ventilated area. (P271)
Wear eye protection and face protection. (P280)
Use personal protective equipment as required. (P281)

Response
Precautionary Statements
IF INHALED: If breathing is difficult, remove victim 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)
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
Precautionary Statements
Store in a well-ventilated place. Keep container tightly closed. (P403+P233)

Disposal
Precautionary Statements
Store locked up. (P405)
Dispose of contents and container in accordance with local, regional and national regulations (to be specified). (P501)

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name or Generic Name</th>
<th>Concentration or Its Ranges</th>
<th>Formula</th>
<th>ENCS No./ISHL No. ENCS No. ISHL No.</th>
<th>CAS RN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>42.75%</td>
<td>CH3CH2OH</td>
<td>(2)–202 Existing</td>
<td>64–17–5</td>
</tr>
<tr>
<td>Isopropanol</td>
<td>40.99%</td>
<td>CH3CH(OH)CH3</td>
<td>(2)–207 2–(8)–319</td>
<td>67–63–0</td>
</tr>
<tr>
<td>Acetone</td>
<td>0.55%</td>
<td>CH3COCH3</td>
<td>(2)–542 Existing</td>
<td>67–64–1</td>
</tr>
</tbody>
</table>

Impurities and/or Stabilizing Additives which CorNo 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.
<table>
<thead>
<tr>
<th>Section 5 – FIRE FIGHTING MEASURES</th>
<th>Section 6 – ACCIDENTAL RELEASE MEASURES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extinguishing Media</td>
<td>Personal Precautions, Protective Equipment and Emergency Procedures</td>
</tr>
<tr>
<td>Protection of Fire Fighter</td>
<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>Carbon dioxide, dry chemicals, water sprinkling, and general foam extinguishing agents</td>
<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. Prevent soil contamination, or the product from flowing into the drain systems.</td>
</tr>
</tbody>
</table>

**Skin Contact**
Get medical advice and attention if you feel unwell.

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.

**Decontamination/Absorption, Sweeping/Vacuming, Neutralization**
Absorb or cover with dry soil, sand, or incombustible materials. Then collect them into a container. 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. 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**
Small amount: Prevent the material from wetting by rain. Cover with dry soil, dry sand, or non-combustibles and store under a plastic sheet cover to avoid scattering and wetting. Solidify substances and scrape off. Cleansing the contaminated area thoroughly with water after removal.

**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

<table>
<thead>
<tr>
<th>Technical Measures</th>
<th>Provide ventilation system and Use necessary personal protective equipment as described in “8. EXPOSURE CONTROLS AND PERSONAL PROTECTION.”</th>
</tr>
</thead>
<tbody>
<tr>
<td>Local and General Ventilation</td>
<td>Provide local ventilations and a full ventilation system as described in “8. EXPOSURE CONTROLS AND PERSONAL PROTECTION.”</td>
</tr>
<tr>
<td>Precautions for Safe Handling</td>
<td>Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Avoid swallowing. Avoid the contact with the skin. Do not breathe gas. Do not breathe mist, vapours and spray. Carry out ventilation of the exhaust. Avoid the contact with eyes. Handle at a well-ventilated place. Avoid high temperature and direct sunlight. Prevents Handling of Incompatible Substances or Mixtures Refer to “10. STABILITY AND REACTIVITY”</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.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Incompatible Substances or Mixtures</td>
<td>Refer to “10. STABILITY AND REACTIVITY”</td>
</tr>
<tr>
<td>Storage Conditions</td>
<td>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.</td>
</tr>
<tr>
<td>Material Used in Packaging/Container</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

#### Engineering Controls

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

#### Personal Protective Equipment

- **Respiratory Protection**: Wear an adequate protective apparatus for respiratory organs.
- **Hand Protection**: Use necessary personal protective gloves.
- **Eye Protection**: Use an adequate personal eye protector. Goggles (ordinary glass type, ordinary glass type with side shields, and goggle type)
- **Skin and Body Protection**: Wear a protective equipment for the face.

#### Specific Hygiene Measures

Use the personal protective clothing and full face mask whenever necessary. Wash hands thoroughly after handling.

### Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

#### Appearance

<table>
<thead>
<tr>
<th>Physical State</th>
<th>liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>red</td>
</tr>
<tr>
<td>Odour</td>
<td>alcoholic</td>
</tr>
</tbody>
</table>
Initial Boiling Point and Boiling Ranges
Flash Point
Auto-Ignition

pH
No data available

No information available

14.0°C (Tag Closed Cup)
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

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.

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

Conform to the provisions of IMO.

Conform to the provisions of ICAO/IATA.

Conform to the provisions of the Ship Safety Law.
Packing Group  II
Marine Pollutant  Not applicable
Regulatory Information by Air  Conform to the provisions of the Ship Safety Law.
UN No. 1263
Proper Shipping Name. PAINT
Class 3
Packing Group II

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  2012/10/25
Revision Date  2016/02/18

Section 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name   MW–C3
Product Code   MWC3000002
Company Name   PENTEL CO., LTD.
Address         7–2, KOAMICHI, 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
Recommended Use  Ink
Use             EMWL5W, 6W, EMWLM, S, MWL5S, 6S, MWL5M, MWL6, MW5S, MWXN5M, 6M, XMWR2, MW50M, 60M, MWR1, MWINK, LMWINK, MW5F, MW5W, MW6–C

Section 2 – HAZARDS IDENTIFICATION

GHS Classification

Physicochemical Hazards  Flammable liquids Category 2
Health Hazards  Serious eye damage/eye irritation Category 2A
Germ cell mutagenicity Category 1B
Reproductive toxicity Category 1A
Specific target organ toxicity (single exposure) Category 1(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(cerebral nervous system, spleen, blood vessel)
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
H319 Causes serious eye irritation
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.

Precautional Statements
Prevention
Keep container tightly closed.(P233)

Precautionary Statements
Keep cool.(P235)
Do not breathe mist, vapours and spray.(P260)
Wash hands thoroughly after handling.(P264)
Do not eat, drink or smoke when using this product.(P270)
Use only outdoors or in a well-ventilated area.(P271)
Wear eye protection and face protection.(P280)
Use personal protective equipment as required.(P281)

Response
Precautionary Statements
IF INHALED: If breathing is difficult, remove victim 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)
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
Precautionary Statements
Store in a well-ventilated place. Keep container tightly closed.(P403+P233)

Disposal
Precautionary Statements
Store locked up.(P405)
Dispose of contents and container in accordance with local, regional and national regulations (to be specified).(P501)

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS
Distinction of Substance or Mixture

<table>
<thead>
<tr>
<th>Chemical Name or Generic Name</th>
<th>Concentration or Its Ranges</th>
<th>Formula</th>
<th>ENCS No./ISHL No. ENCS No. / ISHL No.</th>
<th>CAS RN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>42.75%</td>
<td>CH3CH2OH</td>
<td>(2)–202</td>
<td>Existing</td>
</tr>
<tr>
<td>Isopropanol</td>
<td>39.2%</td>
<td>CH3CH(OH)CH3</td>
<td>(2)–207</td>
<td>2–(8)–319</td>
</tr>
<tr>
<td>Acetone</td>
<td>0.55%</td>
<td>CH3COCH3</td>
<td>(2)–542</td>
<td>Existing</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.
Skin Contact
Get medical advice and attention if you feel unwell.
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
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,
Wear appropriate personal protective equipment
Protective Equipment and (Refer to “Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION”) and avoid inhalation or contact with eyes and skin.
Emergency Procedures
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. Prevent soil contamination, or the product from flowing into the drain systems.
Decontamination/Absorption/Absorb
Absorb or cover with dry soil, sand, or incomestible materials. Then collect them into a container.
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.
Remove from water surface by skimming, or absorbing with an adequate absorbent.
Methods and Equipment
If not dangerous, stop the leak.
for Containment and Cleaning up

Prevention Measures for Secondary Accidents
Small amount: Prevent the material from wetting by rain. Cover with dry soil, dry sand, or non-combustibles and store under a plastic sheet cover to avoid scattering and wetting.
Solidify substances and scrape off.
Cleansing the contaminated area thoroughly with water after removal.
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

<table>
<thead>
<tr>
<th>Handling</th>
<th>Technical Measures</th>
<th>Local and General Ventilation</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 “8. EXPOSURE CONTROLS AND PERSONAL PROTECTION.”</td>
<td>Provide local ventilations and a full ventilation system as described in “8. EXPOSURE CONTROLS AND PERSONAL PROTECTION.”</td>
<td>Do not eat, drink or smoke when using this product.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Wash hands thoroughly after handling.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Avoid swallowing.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Avoid the contact with the skin.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Do not breathe gas.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Do not breathe mist, vapours and spray.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Carry out ventilation of the exhaust.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Avoid the contact with eyes.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Handle at a well-ventilated place.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Avoid high temperature and direct sunlight.</td>
</tr>
</tbody>
</table>

Prevents Handling of Incompatible Substances or Mixtures

Refer to “10. STABILITY AND REACTIVITY”

<table>
<thead>
<tr>
<th>Storage Precautionary Statements</th>
<th>Technical Measures</th>
<th>Incompatible Substances or Mixtures</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>The storage facility should be provided with necessary lighting, lighting equipment, and ventilator to store and handle dangerous goods.</td>
<td>Refer to “10. STABILITY AND REACTIVITY”.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Storage Conditions</th>
<th>Material Used in Packaging/Container</th>
</tr>
</thead>
<tbody>
<tr>
<td>Have containers keep away from direct sunlight and heat.</td>
<td>Use containers prescribed in the “Fire Service Law (Japan)” and the “UN Transport Regulations.”</td>
</tr>
<tr>
<td>Keep away from heat.</td>
<td></td>
</tr>
<tr>
<td>Store in a well-ventilated and cool place keeping container tightly closed.</td>
<td></td>
</tr>
<tr>
<td>Store locked up.</td>
<td></td>
</tr>
</tbody>
</table>

Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>Engineering Controls</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Personal Protective Equipment</td>
<td>Respiratory Protection</td>
<td>Use an adequate protective apparatus for respiratory organs.</td>
</tr>
<tr>
<td>Hand Protection</td>
<td>Eye Protection</td>
<td>Use necessary personal protective gloves.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Use an adequate personal eye protector.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Goggles (ordinary glass type, ordinary glass type with side shields, and goggle type)</td>
</tr>
<tr>
<td>Skin and Body Protection</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Wear a protective equipment for the face.</td>
</tr>
</tbody>
</table>

Specific Hygiene Measures

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

Wash hands thoroughly after handling.

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Physical State</th>
<th>Colour</th>
<th>Odour</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>liquid</td>
<td>blue</td>
<td>alcoholic</td>
</tr>
</tbody>
</table>
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.

Section 14 – TRANSPORT INFORMATION

Regulatory Information by Sea

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

Regulatory Information by Air

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

Regulatory Information by Road or Rail

Regulatory Information by Sea

UN No. 1263
Proper Shipping Name. PAINT
Class 3
Packing Group  II
Marine Pollutant  Not applicable
Regulatory Information by Air  Conform to the provisions of the Ship Safety Law.
UN No.  1263
Proper Shipping Name.  PAINT
Class  3
Packing Group  II

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  2012/10/25
Revision Date  2016/02/18

Section 1 – CHEMICALS AND COMPANY IDENTIFICATION
Chemical Identifier  MW–D4
Product Code  MWD4000002
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  Serious eye damage/eye irritation Category 2A
Germ cell mutagenicity Category 1B
Reproductive toxicity Category 1A
Specific target organ toxicity (single exposure) Category 1(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(blood vessel, central nervous system, spleen)
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
H319 Causes serious eye irritation
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  
Avoid breathing gas. (P261)

Precautionary Statements  
Avoid breathing dust and fume. (P261)  
Wear protective gloves, eye protection and face protection. (P280)  
Keep container tightly closed. (P233)  
Do not breathe mist, vapours and spray. (P260)  
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  
Precautionary Statements  
IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. (P304+P340)

Precautionary Statements  
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  
Get medical advice and attention if you feel unwell. (P314)

Precautionary Statements  
If skin irritation or rash occurs, get medical advice and attention. (P333+P313)

Precautionary Statements  
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

<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>C.I. Pigment Green 7</td>
<td>3%</td>
<td></td>
<td>(5)–3315 Existing</td>
<td>1328–53–6</td>
</tr>
<tr>
<td>Ethanol</td>
<td>45.32%</td>
<td>CH3CH2OH</td>
<td>(2)–202 Existing</td>
<td>64–17–5</td>
</tr>
<tr>
<td>Isopropanol</td>
<td>40.5%</td>
<td>CH3CH(OH)CH3</td>
<td>(2)–207 2–(8)–319</td>
<td>67–63–0</td>
</tr>
<tr>
<td>Acetone</td>
<td>0.58%</td>
<td>CH3COCH3</td>
<td>(2)–542 Existing</td>
<td>67–64–1</td>
</tr>
</tbody>
</table>

Impurities and/or Stabilizing Additives which Contribute to the prevent the product from reacting with other ingredients and maintaining its stability.
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
Take off or dispose of all polluted clothes.
Immediately rinse skin with water.
Get medical advice and attention if you feel unwell.

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

Eye Contact
Specific treatment.
Call a doctor if you feel unwell.
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

#### 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.  
- Do not breathe 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

**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 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**

<table>
<thead>
<tr>
<th>Component</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Respiratory</strong></td>
<td>Wear an adequate protective apparatus for respiratory organs.</td>
</tr>
<tr>
<td><strong>Hand Protection</strong></td>
<td>Wear protective gloves.</td>
</tr>
<tr>
<td><strong>Eye Protection</strong></td>
<td>Wear eye protection. Protection glasses (ordinary glasses, ordinary glasses with side shields, and goggles).</td>
</tr>
<tr>
<td><strong>Skin and Body Protection</strong></td>
<td>Use personal protective clothing and face protection as required.</td>
</tr>
</tbody>
</table>

### Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

**Appearance**

<table>
<thead>
<tr>
<th>Component</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physical State</strong></td>
<td>liquid</td>
</tr>
<tr>
<td><strong>Form</strong></td>
<td>liquid</td>
</tr>
<tr>
<td><strong>Colour</strong></td>
<td>green</td>
</tr>
<tr>
<td>Property</td>
<td>Value</td>
</tr>
<tr>
<td>--------------------------------------------</td>
<td>------------------------------------</td>
</tr>
<tr>
<td>Odour</td>
<td>alcoholic</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting Point/Freezing Point</td>
<td>No data available</td>
</tr>
<tr>
<td>Initial Boiling Point and Boiling Ranges</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash Point</td>
<td>14.0°C (Tag Closed Cup)</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability or Explosive Limits Lower Limit</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability or Explosive Limits Upper Limit</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour Pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour Density</td>
<td>No data available</td>
</tr>
<tr>
<td>Specific Gravity (Density)</td>
<td>No data available</td>
</tr>
<tr>
<td>Partition Coefficient: n-</td>
<td>No data available</td>
</tr>
<tr>
<td>Octanol/Water</td>
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</tr>
<tr>
<td>Auto-Ignition</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition</td>
<td>No data available</td>
</tr>
<tr>
<td>Temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
</tr>
<tr>
<td>Kinematic viscosity</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability or Explosive Limits</td>
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</tbody>
</table>

Section 10 – STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reactivity</td>
<td>No data available</td>
</tr>
<tr>
<td>Chemical stability</td>
<td>No data available</td>
</tr>
<tr>
<td>Possibility of Hazardous Reaction</td>
<td>No data available</td>
</tr>
<tr>
<td>Conditions to Avoid</td>
<td>No data available</td>
</tr>
<tr>
<td>Incompatible Substances or Mixtures</td>
<td>No data available</td>
</tr>
<tr>
<td>Hazardous Decomposition Products</td>
<td>No data available</td>
</tr>
</tbody>
</table>

Section 11 – TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Toxicity</td>
<td>No information available</td>
</tr>
<tr>
<td>Skin Corrosion/Irritation</td>
<td>No data available</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>No data available</td>
</tr>
<tr>
<td>Respiratory or Skin Sensitization</td>
<td>No data available</td>
</tr>
<tr>
<td>Germ Cell Mutagenicity</td>
<td>No data available</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>No data available</td>
</tr>
<tr>
<td>Reproductive Toxicity</td>
<td>No data available</td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>No data available</td>
</tr>
<tr>
<td>Specific target organ toxicity (repeated exposure)</td>
<td>No data available</td>
</tr>
<tr>
<td>Aspiration Hazard</td>
<td>No data available</td>
</tr>
</tbody>
</table>

Section 12 – ECOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazard to the aquatic environment (acute)</td>
<td>No data available</td>
</tr>
<tr>
<td>Hazard to the aquatic environment (long-term hazard)</td>
<td>No data available</td>
</tr>
</tbody>
</table>
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

<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</td>
<td>PAINT</td>
</tr>
<tr>
<td>Class</td>
<td>3</td>
</tr>
<tr>
<td>Packing Group</td>
<td>II</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>

<table>
<thead>
<tr>
<th>Regulatory Information by Air</th>
<th>Conform to the provisions of ICAO/IATA.</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN No.</td>
<td>1263</td>
</tr>
<tr>
<td>Proper Shipping</td>
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<td>Packing Group</td>
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</tr>
<tr>
<td>Marine Pollutant</td>
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</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>

Regulations in Japan

<table>
<thead>
<tr>
<th>Regulatory Information by Road or Rail</th>
<th>Conform to the provisions of the Ship Safety Law.</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN No.</td>
<td>1263</td>
</tr>
<tr>
<td>Proper Shipping</td>
<td>PAINT</td>
</tr>
<tr>
<td>Name.</td>
<td></td>
</tr>
<tr>
<td>Class</td>
<td>3</td>
</tr>
<tr>
<td>Packing Group</td>
<td>II</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>

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

<table>
<thead>
<tr>
<th>Information Contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>No information available</td>
</tr>
</tbody>
</table>

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