**SAFETY DATA SHEET**

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

1.1. **Product identifier**

<table>
<thead>
<tr>
<th>Product Code</th>
<th>3221384000</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product name</strong></td>
<td>DAPHNE SUPER COAT JP</td>
</tr>
<tr>
<td>Pure substance/mixture</td>
<td>mixture</td>
</tr>
</tbody>
</table>

1.2. **Recommended Use**

- Lubricant

1.3. **Uses advised against**

- Not Applicable

1.4. **Details of the supplier of the safety data sheet**

**Manufacturer**

Idemitsu Kosan Co., Ltd.
1-1 3-Chome
Marunouchi
Chiyoda-ku Tokyo, 100-8321, Japan
Telephone: +81-3-3213-3143
Fax: +81-3-3211-5343

**Supplier**

Idemitsu Lube (Malaysia) Sdn. Bhd.
20-21, Lorong Teknologi B
Nouvelle Industrial Park
Tamas Sains Selangor 1
47800, Petaling Jaya Selangor Malaysia
Telephone: +60-3-6157-9529
Fax: +60-3-6157-9636

For further information, please contact

1.4. **Emergency telephone number**

Emergency Telephone
24 Hour Emergency Phone Number
+60 3 6207 4347

**SECTION 2: Hazards identification**

2.1. **Classification of the substance or mixture**

<table>
<thead>
<tr>
<th>Aspiration toxicity</th>
<th>Category 1</th>
</tr>
</thead>
</table>

2.2. **Label elements**

**Product identifier**

Contains PETROLEUM DISTILLATES, HYDROTREATED LIGHT

**SIGNAL WORD**

Danger
Hazard statements
H304 - May be fatal if swallowed and enters airways

Contains

Precautionary Statements
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P331 - Do NOT induce vomiting
P405 - Store locked up
P501 - Dispose of contents/container to an approved waste disposal plant

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.1 Substances
Not Applicable

3.2 Mixtures

<table>
<thead>
<tr>
<th>chemical name</th>
<th>CAS No</th>
<th>weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIQUEFIED PETROLEUM GAS</td>
<td>68476-85-7</td>
<td>50 - 60</td>
</tr>
<tr>
<td>PETROLEUM DISTILLATES, HYDROTREATED LIGHT</td>
<td>64742-47-8</td>
<td>30 - 40</td>
</tr>
<tr>
<td>WHITE MINERAL OIL, PETROLEUM</td>
<td>8042-47-5</td>
<td>10 - 20</td>
</tr>
<tr>
<td>LUBRICATING OIL ADDITIVE</td>
<td>-</td>
<td>&lt;6</td>
</tr>
</tbody>
</table>

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice
Immediate medical attention is required. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

INHALATION
Remove to fresh air. Call a physician. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.

Skin Contact
Wash off immediately with plenty of water.

Eye contact
Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

INGESTION
Do NOT induce vomiting. Rinse mouth. Drink plenty of water. If symptoms persist, call a physician.

Self-protection of the first aider
Remove all sources of ignition.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms
No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians
Keep victim warm and quiet.

SECTION 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media
Suitable Extinguishing Media
CO2, dry chemical, dry sand, alcohol-resistant foam.

Unsuitable Extinguishing Media
Do not use straight streams

5.2. Special hazards arising from the substance or mixture
Some may burn but none ignite readily. Ruptured cylinders may rocket.

5.3. Advice for firefighters
Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions
Remove all sources of ignition
Evacuate personnel to safe areas
Ensure adequate ventilation, especially in confined areas

Ventilate the area.

For emergency responders
Use personal protection recommended in Section 8.

6.2. Environmental precautions
Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up

Methods for containment
Prevent further leakage or spillage if safe to do so.

Methods for cleaning up
Pick up and transfer to properly labeled containers
Dam up
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust)

6.4. Reference to other sections
See Section 12: ECOLOGICAL INFORMATION.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling
Ensure adequate ventilation, especially in confined areas. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. All equipment used when handling the product must be grounded.

General Hygiene Considerations
When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

7.2. Conditions for safe storage, including any incompatibilities
Storage Conditions
Keep tightly closed in a dry and cool place. Keep in properly labeled containers.

7.3. Specific end use(s)

Risk Management Methods (RMM)
The information required is contained in this Material Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Derived No Effect Level (DNEL) No information available
Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering Controls Ensure adequate ventilation, especially in confined areas.

Personal protective equipment
Eye/face protection Tight sealing safety goggles.
Hand Protection Wear protective nitrile rubber gloves.
Skin and body protection Antistatic footwear. Wear fire/flame resistant/retardant clothing. Gloves made of plastic or rubber.
Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls Do not allow into any sewer, on the ground or into any body of water.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks • Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>liquid compressed liquefied gas</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>brown</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>characteristic</td>
<td></td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No information available</td>
<td></td>
</tr>
</tbody>
</table>

9.2. Other information

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pour point</td>
<td>-37.5 °C</td>
</tr>
<tr>
<td>Dropping point</td>
<td></td>
</tr>
<tr>
<td>Density @15°C</td>
<td>0.8363 g/cm³</td>
</tr>
<tr>
<td>Water solubility</td>
<td>Insoluble in water</td>
</tr>
<tr>
<td>Melting point</td>
<td>-89 °C / -128 °F</td>
</tr>
<tr>
<td>Flash point</td>
<td></td>
</tr>
<tr>
<td>Kinematic viscosity</td>
<td></td>
</tr>
<tr>
<td>40°C</td>
<td>4.668 mm²/s</td>
</tr>
<tr>
<td>100°C</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability
Stable under normal conditions.

Explosion Data
Sensitivity to Mechanical Impact  none.
Sensitivity to Static Discharge  No information available.

10.3. Possibility of hazardous reactions

Possibility of Hazardous Reactions
None under normal processing.

10.4. Conditions to avoid
Heat, flames and sparks.

10.5. Incompatible materials
Strong oxidizing agents
Strong bases

10.6. Hazardous decomposition products
Thermal decomposition can lead to release of irritating and toxic gases and vapors.

 SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Product Information
Product does not present an acute toxicity hazard based on known or supplied information.

INHALATION  No data available.

Eye contact  No data available.

Skin Contact  No data available.

INGESTION  No data available.

Unknown Acute toxicity  4.4% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document

<table>
<thead>
<tr>
<th>chemical name</th>
<th>Acute toxicity (LD50) -Oral-</th>
<th>Acute toxicity (LD50) -Dermal-</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>PETROLEUM DISTILLATES, HYDROTREATED LIGHT</td>
<td>&gt; 5000 mg/kg (Rat)</td>
<td>&gt; 2000 mg/kg (Rabbit)</td>
<td></td>
</tr>
<tr>
<td>WHITE MINERAL OIL, PETROLEUM</td>
<td>&gt; 5000 mg/kg (Rat)</td>
<td>&gt;2000 mg/kg</td>
<td>&gt;5mg/l</td>
</tr>
</tbody>
</table>

skin corrosion/irritation  No end point data for material.

Serious eye damage/eye irritation  No end point data for material.

Sensitization  No end point data for material.

Germ cell mutagenicity  No end point data for material.

Carcinogenicity  The petroleum base oils contained in this product have been highly refined by a variety of processes including solvent extraction, hydrotreating, and dewaxing to remove aromatics and improve performance characteristics. All of the oils meet the IP-346 criteria of less than 3 percent PAHs and therefore none are listed as a carcinogen by NTP, IARC, or OSHA.
Reproductive toxicity  No end point data for material.
STOT - single exposure  No end point data for material.
STOT - repeated exposure  No end point data for material.
Target Organ Effects  central nervous system, Bladder.
Aspiration hazard  May be fatal if swallowed and enters airways.

**SECTION 12: Ecological information**

12.1. Toxicity

Harmful to aquatic life
54.5% of the mixture consists of components(s) of unknown hazards to the aquatic environment

<table>
<thead>
<tr>
<th>chemical name</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>PETROLEUM DISTILLATES, HYDROTREATED LIGHT</td>
<td></td>
<td>45: 96 h Pimephales promelas mg/L</td>
<td>4720: 96 h Den-dronereides</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LC50 flow-through 2.2: 96 h</td>
<td>heteropoda mg/L LC50</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Lepomis macrochirus mg/L LC50</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>static 2.4: 96 h Oncorhynchus</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>mykiss mg/L LC50 static</td>
<td></td>
</tr>
<tr>
<td>WHITE MINERAL OIL, PETROLEUM</td>
<td>LOEL(algae)&gt;=100mg/l(WAF)</td>
<td>10000: 96 h Lepomis macrochirus</td>
<td>EL50&gt;100mg/l(WAF)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>mg/L LC50</td>
<td></td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

<table>
<thead>
<tr>
<th>chemical name</th>
<th>Partition coefficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>PETROLEUM DISTILLATES, HYDROTREATED LIGHT</td>
<td>&gt;6</td>
</tr>
<tr>
<td>WHITE MINERAL OIL, PETROLEUM</td>
<td>&gt;6</td>
</tr>
</tbody>
</table>

12.4. Mobility in soil

No information available.

**SECTION 13: Disposal considerations**

13.1. Waste treatment methods

Waste from Residues / Unused Products  Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging  Improper disposal or reuse of this container may be dangerous and illegal.
Other Information  Waste codes should be assigned by the user based on the application for which the product was used.

**SECTION 14: Transport information**

IMDG
14.1 UN/ID no  UN1950
### SECTION 15: Regulatory information

<table>
<thead>
<tr>
<th>14.1</th>
<th>UN/ID no</th>
<th>UN1950</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.2</td>
<td>Proper shipping name</td>
<td>Aerosols, flammable, containing substances in Class 8, Packing Group III</td>
</tr>
<tr>
<td>14.3</td>
<td>Hazard Class</td>
<td>2</td>
</tr>
<tr>
<td>14.4</td>
<td>Packing Group</td>
<td>Not regulated</td>
</tr>
<tr>
<td></td>
<td>Subsidiary hazard class</td>
<td>8</td>
</tr>
<tr>
<td>14.5</td>
<td>environmental hazard</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>14.6</td>
<td>Special Provisions</td>
<td>A145, A167</td>
</tr>
<tr>
<td></td>
<td>ERG Code</td>
<td>10C</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>IBC</th>
<th>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</th>
<th>Not regulated</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Proper shipping name</td>
<td>Not regulated</td>
</tr>
<tr>
<td></td>
<td>CATEGORY</td>
<td>Not regulated</td>
</tr>
</tbody>
</table>
National Regulations

<table>
<thead>
<tr>
<th>Regulation</th>
<th>Applicability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Occupational Safety and Health Act</td>
<td>Applicable</td>
</tr>
<tr>
<td>Factories and Machinery Act</td>
<td>Applicable</td>
</tr>
<tr>
<td>Environment Quality Act</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Pesticides Act</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Environmentally Hazardous Substances(EHS) Notification and Registration</td>
<td>Applicable</td>
</tr>
<tr>
<td>Poisons Act</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

International Inventories

<table>
<thead>
<tr>
<th>Inventory</th>
<th>Complies</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENCS</td>
<td></td>
</tr>
<tr>
<td>TSCA</td>
<td></td>
</tr>
<tr>
<td>EINECS/ELINCS</td>
<td></td>
</tr>
<tr>
<td>DSL</td>
<td></td>
</tr>
<tr>
<td>AICS</td>
<td></td>
</tr>
<tr>
<td>KECL</td>
<td></td>
</tr>
<tr>
<td>PICCS</td>
<td></td>
</tr>
<tr>
<td>China (IECSC)</td>
<td></td>
</tr>
<tr>
<td>Taiwan</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 16: Other information

Issue Date                        | 19-Feb-2014  |
Revision date                     | 06-Feb-2015  |
Revision Note                     | Not Applicable|

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet