



**IDEMITSU**

# SAFETY DATA SHEET

Issue Date 19-May-2015

Revision date 19-May-2015

Version 3

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

### 1.1. Product identifier

**Product Code** SU-676  
**Product name** IDEMITSU SN/CF 5W-40 FULLY SYNTHETIC

**Pure substance/mixture** mixture

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Recommended Use** Lubricant

**Uses advised against** Not Applicable

### 1.3. Details of the supplier of the safety data sheet

#### **Manufacturer**

Idemitsu Lube (Singapore) Pte. Ltd.  
37, Pandan Road  
Singapore, 609280  
Telephone: +65-6268-5888  
Fax: +65-6265-5610

#### **Supplier**

Idemitsu Lube (Singapore) Pte. Ltd.  
37, Pandan Road  
Singapore, 609280  
Telephone: +65-6268-5888  
Fax: +65-6265-5610

For further information, please contact

### 1.4. Emergency telephone number

Emergency Telephone  
24 Hour Emergency Phone Number  
+65 3158 1074

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Not Applicable.

### 2.2. Label elements

#### **Product identifier**

**Precautionary Statements - EU (§28, 1272/2008)**

### 2.3. Other hazards

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not Applicable

**3.2 Mixtures**

chemical name	CAS No	weight-%
PETROLEUM HYDROCARBON (MINERAL OIL)	-	>=90
LUBRICATING OIL ADDITIVE	-	<8
SYNTHETIC HYDROCARBON	-	<1

**SECTION 4: First aid measures****4.1. Description of first aid measures**

<b>INHALATION</b>	Move to fresh air in case of accidental inhalation of vapors or decomposition products. (Get medical attention immediately if symptoms occur.).
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
<b>Eye contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes.
<b>INGESTION</b>	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

**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** No information available.

**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**

Thermal decomposition can lead to release of toxic/corrosive gases and vapors In the event of fire and/or explosion do not breathe fumes

**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**

Ensure adequate ventilation, especially in confined areas

**For emergency responders**

Use personal protection recommended in Section 8

**6.2. Environmental precautions**

Should not be released into the environment.

### **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** Use personal protective equipment as required. Dam up. Cover liquid spill with sand, earth or other non-combustible absorbent material. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly.

### **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**

Use personal protective equipment as required. Avoid breathing vapors or mists.

#### **General Hygiene Considerations**

Handle in accordance with good industrial hygiene and safety practice.

### **7.2. Conditions for safe storage, including any incompatibilities**

#### **Storage Conditions**

Store at ambient conditions. Store in accordance with local regulations.

### **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. Thickness: not less than 0.3mm.

##### **Skin and body protection**

Suitable protective clothing.

##### **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** No information available.

## **SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

<b>Physical state</b>	liquid	<b>Odor</b>	characteristic
<b>Appearance</b>	clear	<b>Odor Threshold</b>	No information available
<b>Color</b>	brown		

<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>
<b>pH</b>		No information available
<b>melting point</b>		No information available
<b>flash point</b>	228 °C / 392 °F	Cleveland Open Cup
<b>Water solubility</b>	Insoluble in water	
<b>Kinematic viscosity 40°C</b>	85.06 mm <sup>2</sup> /s	
<b>Kinematic viscosity 100°C</b>	13.82 mm <sup>2</sup> /s	

**9.2. Other information**

<b>Pour point</b>	-40 °C
<b>Dropping point</b>	
<b>Density @15°C</b>	0.8560 g/cm <sup>3</sup>

**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**

Strong oxidizing agents. 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.

<b>INHALATION</b>	No data available.
<b>Eye contact</b>	No data available.
<b>Skin Contact</b>	No data available.

**INGESTION** No data available.

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

chemical name	Acute toxicity (LD50) -Oral-	Acute toxicity (LD50) -Dermall-	Inhalation LC50
PETROLEUM HYDROCARBON (MINERAL OIL)	> 5000 mg/kg(Rat)	> 2000 mg/kg	> 5mg/l

**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.

**Aspiration hazard** Not classified.

## SECTION 12: Ecological information

### 12.1. Toxicity

4.4% of the mixture consists of components(s) of unknown hazards to the aquatic environment

chemical name	Algae/aquatic plants	Fish	Crustacea
PETROLEUM HYDROCARBON (MINERAL OIL)	LOEL(algae)>=100mg/l(WAF)	10000mg/L LC50 :96h Lepomis macrochirus	EL50 >100mg/l(WAF)

### 12.2. Persistence and degradability

No information available.

### 12.3. Bioaccumulative potential

No information available.

chemical name	Partition coefficient
PETROLEUM HYDROCARBON (MINERAL OIL)	>6

### 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.

**SECTION 14: Transport information****IMDG**

<b>14.1 UN/ID no</b>	Not regulated
<b>14.2 Proper shipping name</b>	Not regulated
<b>14.3 Hazard Class</b>	Not regulated
<b>14.4 Packing Group</b>	Not regulated
<b>14.5 Marine pollutant</b>	Not Applicable
<b>14.6 Special Provisions</b>	none

**RID**

<b>14.1 UN/ID no</b>	Not regulated
<b>14.2 Proper shipping name</b>	Not regulated
<b>14.3 Hazard Class</b>	Not regulated
<b>14.4 Packing Group</b>	Not regulated
<b>14.5 environmental hazard</b>	Not Applicable
<b>14.6 Special Provisions</b>	none

**ADR**

<b>14.1 UN/ID no</b>	Not regulated
<b>14.2 Proper shipping name</b>	Not regulated
<b>14.3 Hazard Class</b>	Not regulated
<b>14.4 Packing Group</b>	Not regulated
<b>14.5 environmental hazard</b>	Not Applicable
<b>14.6 Special Provisions</b>	none

**IATA**

<b>14.1 UN/ID no</b>	Not regulated
<b>14.2 Proper shipping name</b>	Not regulated
<b>14.3 Hazard Class</b>	Not regulated
<b>14.4 Packing Group</b>	Not regulated
<b>14.5 environmental hazard</b>	Not Applicable
<b>14.6 Special Provisions</b>	none

**ADN**

<b>14.1 UN/ID no</b>	Not regulated
<b>14.2 Proper shipping name</b>	Not regulated
<b>14.3 Hazard Class</b>	Not regulated
<b>14.4 Packing Group</b>	Not regulated
<b>14.5 environmental hazard</b>	Not Applicable
<b>14.6 Special Provisions</b>	none

**IBC**

<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not regulated
<b>Proper shipping name</b>	Not regulated
<b>CATEGORY</b>	Not regulated

**SECTION 15: Regulatory information****National Regulations**

<b>Environmental Protection and Management Act</b>	Not Applicable
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Arms and Explosives Act	Not Applicable
Chemical Weapons Prohibition Act	Not Applicable
Control of Vectors and pesticides Act	Not Applicable
Environmental Public Health Act	Not Applicable
Fire Safety Act	Not Applicable
Hazardous Waste(Control of Export, Import and Transit) Act	Not Applicable
Maritime and Port Authority of Singapore(Dangerous Goods, Petroleum and Explosives) Regulations	Not Applicable
Misuse of Drugs Act	Not Applicable
Strategic Goods Act	Not Applicable
Workplace Safety and Health Act	Not Applicable
Poisons Act	Not Applicable

**International Inventories**

ENCS	Complies
TSCA	Complies
EINECS/ELINCS	Complies
DSL	Complies
AICS	Complies
KECL	Complies
PICCS	Complies
China (IECSC)	Complies
NZIoC	Complies

**SECTION 16: Other information**

Issue Date	19-May-2015
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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