



IDEMITSU

SAFETY DATA SHEET

Issue Date 19-May-2015

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Version 2

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

1.1. Product identifier

Product Code SU-677
Product name IDEMITSU SN/CF 10W-40 SEMI 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**

INHALATION	Move to fresh air in case of accidental inhalation of vapors or decomposition products. (Get medical attention immediately if symptoms occur.).
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes.
INGESTION	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. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Avoid creating dust.

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.

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

Physical state	liquid	Odor	characteristic
Appearance	clear	Odor Threshold	No information available
Color	brown		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH		No information available
melting point		No information available
flash point	222 °C / 392 °F	Cleveland Open Cup
Water solubility	Insoluble in water	
Kinematic viscosity 40°C	95.91 mm ² /s	
Kinematic viscosity 100°C	14.04 mm ² /s	

9.2. Other information

Pour point	-42 °C
Dropping point	
Density @15°C	0.8655 g/cm ³

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.

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.

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**

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

RID

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

ADR

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

IATA

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

ADN

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

IBC

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

SECTION 15: Regulatory information**National Regulations**

Environmental Protection and Management Act	Not Applicable
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