



**IDEMITSU**

# SAFETY DATA SHEET

Issue Date 26-Dec-2013

Revision date 28-Jan-2015

Version 2

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

### 1.1. Product identifier

**Product Code** SU-654  
*Product name* IDEMITSU ATF

**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 (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

<b>Chronic aquatic toxicity</b>	Category 3
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### 2.2. Label elements

**Product identifier**

**SIGNAL WORD**

Not classified

#### **Hazard statements**

H412 - Harmful to aquatic life with long lasting effects

#### **Contains**

**Precautionary Statements**

P273 - Avoid release to the environment

P501 - Dispose of contents/ container to an approved waste disposal plant

**2.3. Other hazards**

Harmful to aquatic life Harmful to aquatic life with long lasting effects

**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	-	<10
2,6-Di-tert-butyl-p-cresol	128-37-0	<0.3
TRICRESYL PHOSPHATE (meta,para isomer mixed)	1330-78-5	<0.3

**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**

The product causes burns of eyes, skin and mucous membranes Thermal decomposition can lead to release of irritating and toxic 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**

<b>Eye/face protection</b>	Tight sealing safety goggles.
<b>Hand Protection</b>	Wear protective nitrile rubber gloves.
<b>Skin and body protection</b>	Suitable protective clothing.
<b>Respiratory protection</b>	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>	red		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH		No information available
melting point		No information available
flash point	194 °C / 356 °F	Cleveland Open Cup
Water solubility	Insoluble in water	
Kinematic viscosity 40°C	30.32 mm <sup>2</sup> /s	
Kinematic viscosity 100°C	7.316 mm <sup>2</sup> /s	

**9.2. Other information**

<b>Pour point</b>	-45.0 °C
<b>Dropping point</b>	
<b>Density @15°C</b>	0.8508 g/cm <sup>3</sup>

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No data available.

**10.2. Chemical stability**

Stable under normal conditions.

<u>Explosion Data</u>	
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** 7.1% of the mixture consists of ingredient(s) of unknown toxicity.

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

chemical name	Acute toxicity (LD50) -Oral-	Acute toxicity (LD50) -Dermall-	Inhalation LC50
2,6-Di-tert-butyl-p-cresol		>2000mg/kg bw	546mg/m <sup>3</sup>
TRICRESYL PHOSPHATE (meta,para isomer mixed)	3 g/kg ( Rat )	3700mg/kg	>11.1mg/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.

chemical name	IARC
2,6-Di-tert-butyl-p-cresol	Group 3

**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**

7.1% of the mixture consists of components(s) of unknown hazards to the aquatic environment

chemical name	Algae/aquatic plants	Fish	Crustacea

2,6-Di-tert-butyl-p-cresol	6: 72 h Pseudokirchneriella subcapitata mg/L EC50 0.42: 72 h Desmododesmus subspicatus mg/L EC50	5: 48 h Oryzias latipes mg/L LC50	
TRICRESYL PHOSPHATE (meta,para isomer mixed)	-	0.21 - 0.32: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 3.3 - 6.2: 96 h Oncorhynchus mykiss mg/L LC50 static 0.1 - 0.22: 96 h Lepomis macrochirus mg/L LC50 flow-through 20.4 - 41.2: 96 h Lepomis macrochirus mg/L LC50 static 3.2 - 10: 96 h Oryzias latipes mg/L LC50 semi-static 4.8 - 6.4: 96 h Poecilia reticulata mg/L LC50 semi-static	

**12.2. Persistence and degradability**

No information available.

**12.3. Bioaccumulative potential**

No information available.

**12.4. Mobility in soil**

No information available.

<b>SECTION 13: Disposal considerations</b>
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**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.

<b>SECTION 14: Transport information</b>
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**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

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

<b>SECTION 15: Regulatory information</b>
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**National Regulations**

Occupational Safety and Health Act	Applicable
Factories and Machinery Act	Not Applicable
Environment Quality Act	Not Applicable
Pesticides Act	Applicable
Environmentally Hazardous Substances(EHS) Notification and Registration	Applicable
Poisons Act	Not Applicable
Food Act	Applicable

**International Inventories**

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

<b>SECTION 16: Other information</b>
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Issue Date	26-Dec-2013
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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