



**IDEMITSU**

# Safety Data Sheet

Issue Date 14-Nov-2012

Revision date 18-Jun-2014

Version 7

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

### 1.1. Product identifier

**Product Code** 3245085000  
*Product name* DAPHNE HERMETIC OIL FVC32D - **160HV**

**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 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 Europe GmbH  
Elberfelder Strasse 2  
40213 Duesseldorf, Germany  
Telephone: +49-211-175-4370  
Fax: +49-211-830-2853

For further information, please contact

### 1.4. Emergency telephone number

Emergency Telephone Idemitsu Lube Europe GmbH : +49-211-175-4370

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

*Regulation (EC) No 1272/2008*

<b>Chronic aquatic toxicity</b>	Category 3
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#### **Classification according to 67/548/EEC**

*Full text of R-phrases: see section 16*

#### **R-code(s)**

Not classified

### 2.2. Label elements

#### **Product identifier**

#### **Hazard statements**

H412 - Harmful to aquatic life with long lasting effects

#### **Contains**

Not Applicable

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

P273 - Avoid release to the environment

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

### 2.3. Other hazards

May be harmful if swallowed Harmful to aquatic life

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT)

This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB)

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not Applicable

### 3.2 Mixtures

chemical name	EC No	CAS No	weight-%	Classification according to 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
Polyether compound	Not Listed	-	95=<	Not Applicable	Not Applicable	Not Applicable
TRICRESYL PHOSPHATE (meta,para isomer mixed)	215-548-8	1330-78-5	<2	N;R50	Aquatic Acute 1 (H400)	Not Applicable
2,6-Di-tert-butyl-p-cresol	204-881-4	128-37-0	<1	N; R50-53	Aquatic Acute 1 (H400) Aquatic Chronic 1(H410)	Not Applicable
Additives	-	-	<1	Not Applicable	Not Applicable	Not Applicable

Full text of R-phrases: see section 16

Full text of H- and EUH-phrases: see section 16

## 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  
Beware of slippery surface.

**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**

Wash contaminated clothing before reuse.

**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**

chemical name	European Union	United Kingdom	France	Spain	Germany
2,6-Di-tert-butyl-p-cresol 128-37-0		STEL: 30 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>		TWA: 10 mg/m <sup>3</sup> Ceiling / Peak: 40 mg/m <sup>3</sup> Skin
Component	Italy	Portugal	Netherlands	Finland	Denmark
2,6-Di-tert-butyl-p-cresol 128-37-0 ( <1 )				TWA: 10 mg/m <sup>3</sup> STEL: 20 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> STEL:20mg/m <sup>3</sup>
chemical name	Austria	Switzerland	Poland	Norway	Ireland
2,6-Di-tert-butyl-p-cresol 128-37-0	TWA: 10 mg/m <sup>3</sup>				TWA: 10 mg/m <sup>3</sup>

**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>	Colorless		

**Property****Values****Remarks • Method**

<b>pH</b>		No information available
<b>melting point</b>		
<b>flash point</b>	178 °C / 338 °F	Cleveland Open Cup
<b>Water solubility</b>	Insoluble in water	
<b>Kinematic viscosity 40°C</b>	32.4 mm <sup>2</sup> /s	
<b>Kinematic viscosity 100°C</b>	5.12 mm <sup>2</sup> /s	

**9.2. Other information**

<b>Pour point</b>	-47.5 °C
<b>Dropping point</b>	
<b>density @15°C</b>	0.9252 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.

**INHALATION** No data available.

**Eye Contact** No data available.

**Skin Contact** No data available.

**INGESTION** No data available.

**Unknown Acute toxicity** 98.35% of the mixture consists of ingredient(s) of unknown toxicity.

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

**ATEmix (oral)** 4,950.00

chemical name	Oral LD50	Dermal LD50	Inhalation LC50
TRICRESYL PHOSPHATE (meta,para isomer mixed)	3 g/kg ( Rat )	3700mg/kg	>11.1mg/L
2,6-Di-tert-butyl-p-cresol	890 mg/kg ( Rat )	>2000mg/kg bw	546mg/m <sup>3</sup>

**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	No end point data for material.
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

**Water hazard class (WGK)** slightly hazardous to water (WGK 1).

0.3005% of the mixture consists of component(s) of unknown hazards to the aquatic environment

chemical name	Algae/aquatic plants	Fish	Crustacea
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	
2,6-Di-tert-butyl-p-cresol	6: 72 h Pseudokirchneriella subcapitata mg/L EC50 0.42: 72 h Desmodesmus subspicatus mg/L EC50	5: 48 h Oryzias latipes mg/L LC50	

### 12.2. Persistence and degradability

No information available.

### 12.3. Bioaccumulative potential

No information available.

### 12.4. Mobility in soil

No information available.

### 12.5. Results of PBT and vPvB assessment

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT)  
This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB)

chemical name	PBT and vPvB assessment
2,6-Di-tert-butyl-p-cresol	Not Applicable

### 12.6. Other adverse effects

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 No known effect

<b>SECTION 13: Disposal considerations</b>
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**13.1. Waste treatment methods**

<b>Waste from Residues / Unused Products</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.
<b>Contaminated packaging</b>	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
<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

CATEGORY	Not regulated
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<b>SECTION 15: Regulatory information</b>
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ENCS	Complies
TSCA	Complies
EINECS	Complies
DSL	Not Listed
AICS	Complies
KECL	Complies
PICCS	Not Listed
China (IECSC)	Complies
NZIoC	Not Listed

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

chemical name	French RG number	Title
TRICRESYL PHOSPHATE (meta,para isomer mixed) 1330-78-5	RG 34	

**Water hazard class (WGK)** slightly hazardous to water (WGK 1).

**European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

**15.2. Chemical safety assessment**

A Chemical Safety Assessment is not required for this substance

<b>SECTION 16: Other information</b>
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**Full text of R-phrases referred to under sections 2 and 3**

R22 - Harmful if swallowed

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

**Full text of H-Statements referred to under sections 2 and 3**

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

**Issue Date** 14-Nov-2012

**Revision date** 18-Jun-2014

**Revision Note** Not Applicable.

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

**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