



IDEMITSU

Safety Data Sheet

Issue Date 21-Apr-2014

Revision date 22-Mar-2016

Version 2

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

1.1. Product identifier

Product Code 3235301400
Product name DAPHNE SUPER TURBINE OIL 32

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

For further information, please contact

1.4. Emergency telephone number

Emergency Telephone
Idemitsu Kosan Co.,Ltd.
TEL:+81-3-3213-3613

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Chronic aquatic toxicity	Category 3
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2.2. Label elements

Product identifier

Hazard statements

H412 - Harmful to aquatic life with long lasting effects

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

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	weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
PETROLEUM HYDROCARBON (MINERAL OIL)	-	>=95	Not Applicable	Not Applicable
2,6-Di-tert-butyl-p-cresol	204-881-4	<0.6	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	Not Applicable
TRICRESYL PHOSPHATE (meta,para isomer mixed)	215-548-8	<0.4	Repr. 2 (H361) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	Not Applicable
LUBRICATING OIL ADDITIVE	-	<1	Not Applicable	Not Applicable

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

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

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 ³ TWA: 10 mg/m ³	TWA: 10 mg/m ³		TWA: 10 mg/m ³ Ceiling / Peak: 40 mg/m ³ Skin
chemical name	Italy	Portugal	Netherlands	Finland	Denmark
2,6-Di-tert-butyl-p-cresol 128-37-0				TWA: 10 mg/m ³ STEL: 20 mg/m ³	TWA: 10 mg/m ³ STEL:20mg/m ³
chemical name	Austria	Switzerland	Poland	Norway	Ireland
2,6-Di-tert-butyl-p-cresol 128-37-0	TWA: 10 mg/m ³				TWA: 10 mg/m ³

chemical name	ACGIH TLV
PETROLEUM HYDROCARBON (MINERAL OIL)	5mg/m ³

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**

Physical state	Liquid	Odor	Slight
Appearance	clear	Odor Threshold	No information available
color	Colorless		
Property	Values	Remarks • Method	
pH		No information available	
melting point			
flash point	230 °C / 446 °F	Cleveland Open Cup	
Water solubility	Insoluble in water		
Kinematic viscosity 40°C	32.68 mm ² /s		
Kinematic viscosity 100°C	5.516 mm ² /s		

9.2. Other information

Pour point	-17.5 °C
Dropping point	No information available
density @15°C	0.8642 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.

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

chemical name	Oral LD50	Dermal LD50	Inhalation LC50
PETROLEUM HYDROCARBON (MINERAL OIL)	> 5000 mg/kg(Rat)	> 2000 mg/kg	> 5mg/l
2,6-Di-tert-butyl-p-cresol		>2000mg/kg bw	546mg/m ³
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.
Reproductive Toxicity	Product is or contains a chemical which is a known or suspected reproductive hazard.
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).

Harmful to aquatic life

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)
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	
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.

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

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

No known effect

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

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	

European Union

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

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

International Inventories

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

SECTION 16: Other information

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

H361 - Suspected of damaging fertility or the unborn child
 H400 - Very toxic to aquatic life
 H410 - Very toxic to aquatic life with long lasting effects
 H412 - Harmful to aquatic life with long lasting effects

Issue Date 21-Apr-2014
Revision date 22-Mar-2016
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