



IDEMITSU

Safety Data Sheet

Issue Date 28-Apr-2014

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Version 2

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

1.1. Product identifier

Product Code 3229034900
Product name DAPHNE MULTIWAY 220C

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

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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Classification according to 67/548/EEC

Full text of R-phrases: see section 16

R-code(s)

R52/53

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

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

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
Mineral oil	Listed	-	95=<	Not Applicable	Not Applicable	01-2119487078-27
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	-	-	<2	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

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

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

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

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
Component	Italy	Portugal	Netherlands	Finland	Denmark
2,6-Di-tert-butyl-p-cresol 128-37-0 (<1)				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
Mineral oil	TWA 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	characteristic
Appearance	clear	Odor Threshold	No information available
color	light brown		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH		No information available
melting point		
flash point	250 °C / 482 °F	Cleveland Open Cup
Water solubility	Insoluble in water	
Kinematic viscosity 40°C	220.6 mm ² /s	
Kinematic viscosity 100°C	20.20 mm ² /s	

9.2. Other information

Pour point	-12.5 °C
Dropping point	
density @15°C	0.8818 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 0.93498% 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) 6,114.00
ATEmix (dermal) 6,114.00

chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Mineral oil	> 5000 mg/kg (Rat)	>2000 mg/kg	>5mg/l
2,6-Di-tert-butyl-p-cresol	890 mg/kg (Rat)	>2000mg/kg bw	546mg/m ³

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.
As a precaution the product should be treated as a sensitizer

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

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

1.092% of the mixture consists of component(s) of unknown hazards to the aquatic environment

chemical name	Algae/aquatic plants	Fish	Crustacea
Mineral oil	LOEL(algae) \geq 100mg/l(WAF)	10000: 96 h <i>Lepomis macrochirus</i> mg/L LC50	EL50 $>$ 100mg/l(WAF)
2,6-Di-tert-butyl-p-cresol	6: 72 h <i>Pseudokirchneriella subcapitata</i> mg/L EC50 0.42: 72 h <i>Desmodesmus subspicatus</i> mg/L EC50	5: 48 h <i>Oryzias latipes</i> mg/L LC50	

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

chemical name	Partition coefficient
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

ENCS	Not Listed
TSCA	Not Listed
AICS	Not Listed

KECL	Not Listed
PICCS	Not Listed
China (IECSC)	Not Listed

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

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

SECTION 16: Other information

Full text of R-phrases referred to under sections 2 and 3

R65 - Harmful: may cause lung damage 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

H304 - May be fatal if swallowed and enters airways

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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