



# Safety Data Sheet

Issue Date 28-Apr-2014

Revision date 30-Apr-2014

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

<b>Chronic aquatic toxicity</b>	Category 3
---------------------------------	------------

#### **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 <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: 20 mg/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>

chemical name	ACGIH TLV
Mineral oil	TWA 5mg/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>	light brown		

Property	Values	Remarks • Method
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 <sup>2</sup> /s	
Kinematic viscosity 100°C	20.20 mm <sup>2</sup> /s	

### 9.2. Other information

<b>Pour point</b>	-12.5 °C
<b>Dropping point</b>	
<b>density @15°C</b>	0.8818 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** 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 <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.  
As a precaution the product should be treated as a sensitizer

**germ cell mutagenicity** No end point data for material.

<b>carcinogenicity</b>	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.
<b>Reproductive Toxicity</b>	No end point data for material.
<b>STOT - single exposure</b>	No end point data for material.
<b>STOT - repeated exposure</b>	No end point data for material.
<b>aspiration hazard</b>	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)>=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**

<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
<b>CATEGORY</b>	Not regulated

**SECTION 15: Regulatory information**

<b>ENCS</b>	<b>Not Listed</b>
<b>TSCA</b>	<b>Not Listed</b>
<b>AICS</b>	<b>Not Listed</b>

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

**Issue Date** 28-Apr-2014

**Revision date** 30-Apr-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