



**IDEMITSU**

# SAFETY DATA SHEET

Issue Date 22-Jan-2014

Revision date 22-Aug-2014

Version 2

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

### Product identifier

**Product name** DAPHNE BALL SCREW OIL 100

### Other means of identification

**Product Code** 3225085100

### Recommended use of the chemical and restrictions on use

**Recommended Use** Lubricant

### 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

### Emergency telephone number

United States and Canada:+1 215 207 0061

Mexico:+52 555 004 8763

Brazil:+55 113 711 9144

East/South East Asia:+65 3158 1074

Korea +65 3158 1285

Australia +61 2801 44558

New Zealand +64 9929 1483

## SECTION 2: Hazards identification

### Classification

### Label elements

#### Emergency Overview

**Appearance** clear

**Physical state** liquid

**Odor** characteristic

### Hazards not otherwise classified (HNOC)

• Not Applicable

### Other Information

13% of the mixture consists of ingredient(s) of unknown toxicity

## SECTION 3: Composition/information on ingredients

chemical name	CAS No	weight-%	Trade Secret
Synthetic hydrocarbon	Proprietary	90=<	*
Mineral oil	Proprietary	<3	*
2,6-Di-tert-butyl-p-cresol	128-37-0	<1	*
Additives	-	<3	*

\* The exact percentage (concentration) of composition has been withheld as a trade secret.

## SECTION 4: First aid measures

### first aid measures

<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>Skin Contact</b>	Wash skin with soap and water.
<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>INGESTION</b>	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

### Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

### Indication of any immediate medical attention and special treatment needed

## SECTION 5: FIRE FIGHTING MEASURES

### Suitable Extinguishing Media

CO<sub>2</sub>, dry chemical, dry sand, alcohol-resistant foam.

**Unsuitable Extinguishing Media** Caution: Use of water spray when fighting fire may be inefficient.

### Specific hazards arising from the chemical

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.

### Explosion Data

**Sensitivity to Mechanical Impact** none.

**Sensitivity to Static Discharge** none.

### Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

## SECTION 6: Accidental release measures

### 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.

### Environmental precautions

**Environmental precautions** Should not be released into the environment.

**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.

**SECTION 7: Handling and storage**

**Precautions for safe handling**

**Advice on safe handling** Use personal protective equipment as required. Avoid breathing vapors or mists.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Store at ambient conditions. Store in accordance with local regulations.

**Incompatible materials** None known based on information supplied.

**SECTION 8: Exposure controls/personal protection**

**Control parameters**

**Exposure Guidelines** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Mineral oil	TWA 5mg/m <sup>3</sup>	-	-
2,6-Di-tert-butyl-p-cresol 128-37-0	-	-	TWA: 10 mg/m <sup>3</sup>

chemical name	ACGIH TLV
Mineral oil	TWA 5mg/m <sup>3</sup>

**Appropriate engineering controls**

**Engineering Controls** Ensure adequate ventilation, especially in confined areas.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**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.

**General Hygiene Considerations** Wash contaminated clothing before reuse.

**SECTION 9: Physical and chemical properties**

**Information on basic physical and chemical properties**

**Color** green  
**Appearance** clear  
**Physical state** liquid

<b>Odor</b>	characteristic	
<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks</u></b>
<b>pH</b>	No data available	
<b>Melting point/freezing point</b>		
<b>melting point</b>	No information available	
<b>Pour point</b>	-50.0> °C	
<b>freezing point</b>	No information available	
<b>Initial boiling point</b>	280 °C Or more	
<b>Flash Point Header(Representative Value)</b>	226 °C / 439 °F	Cleveland Open Cup
<b>Flammability Limits in Air</b>		
<b>Upper flammability limits</b>	7 vol%	
<b>Lower flammability limit</b>	1vol%	
<b>Density @15°C</b>	0.8433 g/cm3	
<b>Solubility(ies)</b>		
<b>Water solubility</b>	Insoluble in water	
<b>Kinematic viscosity 40°C</b>	99.11 mm2/s	
<b>Kinematic viscosity 100°C</b>	14.39 mm2/s	
<b>Dropping point</b>	No information available	

## SECTION 10: Stability and reactivity

### **Reactivity**

No data available

### **Chemical stability**

Stable under normal conditions.

### **Possibility of Hazardous Reactions**

None under normal processing.

### **Conditions to avoid**

Strong oxidizing agents. Heat, flames and sparks.

### **Incompatible materials**

None known based on information supplied.

### **Hazardous Decomposition Products**

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

## SECTION 11: Toxicological information

### Information on likely routes of exposure

<b>Product Information</b>	No data available
<b>INHALATION</b>	No data available.
<b>Eye contact</b>	No data available.
<b>Skin Contact</b>	No data available.
<b>INGESTION</b>	No data available.

chemical name	Acute toxicity (LD50) -Oral-	Acute toxicity (LD50) -Dermall-	Inhalation LC50
Synthetic hydrocarbon	>5000mk/kg	>3000 mg/kg	5.0 to 5.6 mg/L
Mineral oil	> 5000 mg/kg ( Rat )	-	-
2,6-Di-tert-butyl-p-cresol 128-37-0	-	>2000mg/kg bw	546mg/m <sup>3</sup>

### Information on toxicological effects

**Symptoms** No information available.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Sensitization** No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

chemical name	ACGIH	IARC	NTP	OSHA
Mineral oil	A2	Group 3		X
2,6-Di-tert-butyl-p-cresol 128-37-0		Group 3		

**ACGIH (American Conference of Governmental Industrial Hygienists)**

A2 - Suspected Human Carcinogen

**IARC (International Agency for Research on Cancer)**

Not classifiable as a human carcinogen

**OSHA (Occupational Safety and Health Administration of the US Department of Labor)**

X - Present

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Aspiration hazard** Not classified.

### Numerical measures of toxicity - Product Information

**Unknown Acute toxicity** 13% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document . mg/kg

## SECTION 12: Ecological information

### Ecotoxicity

11.2% of the mixture consists of component(s) of unknown hazards to the aquatic environment

chemical name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
Mineral oil		5000: 96 h Oncorhynchus mykiss mg/L LC50		1000: 48 h Daphnia magna mg/L EC50

2,6-Di-tert-butyl-p-cresol 128-37-0	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		
--	---	--------------------------------------	--	--

**Persistence and degradability**

No information available.

**Bioaccumulation**

No information available.

**Mobility**

No information available.

**Other adverse effects**

No information available

<b>SECTION 13: Disposal considerations</b>
--

**Waste treatment methods****Disposal of wastes**

Improper disposal or reuse of this container may be dangerous and illegal.

**Contaminated packaging**

Do not reuse container.

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

**DOT**

Not regulated

**TDG**

Not regulated

**IATA**

Not regulated

**IMDG**

Not regulated

**ADR**

Not regulated

**IBC**

Transport in bulk according to  
Annex II of MARPOL 73/78 and  
the IBC Code

Not regulated

Proper shipping name  
CATEGORY

Not regulated

Not regulated

<b>SECTION 15: Regulatory information</b>
---

**US Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**SARA 311/312 Hazard Categories**

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No

**Reactive Hazard**

No

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals

**U.S. State Right-to-Know Regulations****U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not Applicable

**International Inventories**

<b>ENCS</b>	Complies
<b>TSCA</b>	Complies
<b>EINECS/ELINCS</b>	Complies
<b>DSL</b>	Not Listed
<b>AICS</b>	Not Listed
<b>KECL</b>	Not Listed
<b>PICCS</b>	Not Listed
<b>China (IECSC)</b>	Complies
<b>Taiwan</b>	Not Listed

<b>SECTION 16: Other information</b>
--------------------------------------

<b><u>NFPA</u></b>	<b>Health hazards</b> 0	<b>Flammability</b> 1	<b>Instability</b> 0	<b>Physical and Chemical Properties -</b>
<b><u>HMIS</u></b>	<b>Health hazards</b> 0	<b>Flammability</b> 1	<b>Physical hazards</b> 0	<b>Personal protection</b> X

**Issue Date** 22-Jan-2014

**Revision date** 22-Aug-2014

**Revision Note**

No information available

**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**