

# **Safety Data Sheet**

Issue Date 09-Jul-2013 Revision date 02-Sep-2014 Version 1

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

#### 1.1. Product identifier

Product Code32451504Product nameND-OIL 12

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 +44 (0) 1235 239 670

# **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Chronic aquatic toxicity Category 3

#### 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**

Phenol, nonyl-, phosphite (3:1) EUH208 - May produce an allergic reaction

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

P391 - Collect spillage

P273 - Avoid release to the environment

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

# 2.3. Other hazards

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 COMPOUNDS	-	-	>=90	Not Applicable	Not Applicable	Not Applicable
LUBRICATING OIL ADDITIVE	-	-	<6	Not Applicable	Not Applicable	Not Applicable
TRICRESYL PHOSPHATE (meta,para isomer mixed)	Present	1330-78-5	<0.9	N;R50	Aquatic Acute 1 (H400)	Not Applicable
2,6-Di-tert-butyl-p-cres ol	Present	128-37-0	<0.5	N; R50-53	Aquatic Acute 1 (H400) Aquatic Chronic 1(H410)	Not Applicable
Phenol, nonyl-, phosphite (3:1)	Present	26523-78-4	<0.3	N; R50-53 R43	Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	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

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		STEL: 30 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>		TWA: 10 mg/m <sup>3</sup>
128-37-0		TWA: 10 mg/m <sup>3</sup>			Ceiling / Peak: 40
					mg/m³
					Skin
chemical name	Italy	Portugal	Netherlands	Finland	Denmark
2,6-Di-tert-butyl-p-cresol				TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>
128-37-0				STEL: 20 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	TWA: 10 mg/m <sup>3</sup>				TWA: 10 mg/m <sup>3</sup>
128-37-0					

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration No information available.

(PNEC)

Physical state

8.2. Exposure controls

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

Personal protective equipment

**Eye/face protection Hand protection**Tight sealing safety goggles.

Wear protective nitrile rubber gloves.

Liquid

**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

Cleveland Open Cup

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

Appearance clear Odor characteristic

color light yellow Odor Threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH No information available melting point

flash point

182 °C / 320 °F

Water solubility

Insoluble in water

Kinematic viscosity 40°C

39 45 mm<sup>2</sup>/s

Kinematic viscosity 40°C 39.45 mm2/s
Kinematic viscosity 100°C 9.079 mm2/s

9.2. Other information

Pour point Dropping point

-40.0 °C

density @15°C

0.9850 g/cm3

# **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** 3.7% 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)
 1,000,000.00

 ATEmix (dermal)
 1,000,000.00

chemical name	Oral LD50	Dermal LD50	Inhalation LC50
---------------	-----------	-------------	-----------------

#### 32451504 - ND-OIL 12

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>
Phenol, nonyl-, phosphite (3:1)	10000 mg/kg (Rat)	>2000mg/kg bw	

**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).

Harmful to aquatic life

98.3% of the mixture consists of components(s) of unknown hazards to the aquatic environment

chemical name	Algae/aquatic plants	Fish	Crustacea
TRICRESYL PHOSPHATE	-	0.21 - 0.32: 96 h Oncorhynchus	
(meta,para isomer mixed)		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		
Phenol, nonyl-, phosphite (3:1)		10: 96 h Brachydanio rerio mg/L	0.42: 48 h Daphnia magna mg/L
		LC50 static	EC50

#### 12.2. Persistence and degradability

No information available.

#### 12.3. Bioaccumulative potential

No information available.

chemical name	Partition coefficient
2,6-Di-tert-butyl-p-cresol	4.17

### 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

**Endocrine Disruptor Information** 

<b>SECTION 13:</b>	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**

MDG	
-----	--

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
440	Consolal Descriptions	nono

14.6 Special Provisions none

<u>RID</u>

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	<b>Environmental hazard</b>	Not Applicable

14.6 Special Provisions none

<u>ADR</u>

UN/ID no	Not regulated
Proper shipping name	Not regulated
Hazard Class	Not regulated
Packing group	Not regulated
Environmental hazard	Not Applicable
	UN/ID no Proper shipping name Hazard Class Packing group Environmental hazard

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 groupNot regulated14.5 Environmental hazardNot Applicable

14.6 Special Provisions none

ADN

14.1 UN/ID noNot regulated14.2 Proper shipping nameNot regulated14.3 Hazard ClassNot regulated14.4 Packing groupNot regulated14.5 Environmental hazardNot Applicable

14.6 Special Provisions none

**IBC** 

Transport in bulk according to Not regulated

Annex II of MARPOL 73/78 and

the IBC Code

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)	RG 34	
1330-78-5		

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

### **International Inventories**

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

# **SECTION 16: Other information**

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

R43 - May cause sensitization by skin contact

R50 - Very toxic to aquatic organisms

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

Revision date 02-Sep-2014

#### 32451504 - ND-OIL 12

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

H317 - May cause an allergic skin reaction

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

EUH208 - May produce an allergic reaction

Issue Date 09-Jul-2013

Revision date 02-Sep-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** 

\_\_\_\_