

# SAFETY DATA SHEET

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Version 3

# **SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

Product identifier **Product name** 

ND-OIL8

3245033800

Other means of identification **Product Code** 

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

24 Hour Emergency Phone 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

Skin sensitization

Category 1

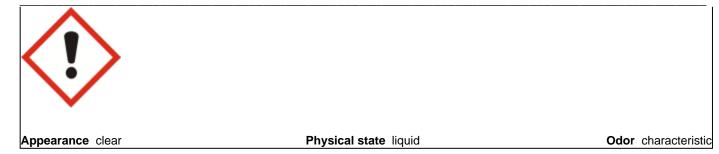
#### Label elements

**Emergency Overview** 

Warning

# SIGNAL WORD

Hazard statements May cause an allergic skin reaction



#### Precautionary Statements - Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray Contaminated work clothing should not be allowed out of the workplace Wear protective gloves

## **Precautionary Statements - Response**

Not Applicable

#### Skin

IF ON SKIN: Wash with plenty of soap and water If skin irritation or rash occurs: Get medical advice/attention Wash contaminated clothing before reuse

#### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

· Harmful to aquatic life with long lasting effects

#### Other Information

0.1% of the mixture consists of ingredient(s) of unknown toxicity

# SECTION 3: Composition/information on ingredients

chemical name	CAS No	weight-%	Trade Secret
POLYETHER COMPOUNDS	-	>=90	*
LUBRICATING OIL ADDITIVE	-	<3	*
TRICRESYL PHOSPHATE (meta,para isomer mixed)	1330-78-5	<0.9	*
2,6-Di-tert-butyl-p-cresol	128-37-0	<0.5	*
Phenol, nonyl-, phosphite (3:1)	26523-78-4	<0.3	*

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

# **SECTION 4: First aid measures**

first aid measures	
Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes.
Skin Contact	Wash skin with soap and water.
INHALATION	Move to fresh air in case of accidental inhalation of vapors or decomposition products. (Get medical attention immediately if symptoms occur.).

#### INGESTION

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

CO2, 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 e	quipment 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.			
Environmental precautions Methods and material for containm Methods for containment	Prevent further leakage or spillage if safe to do so. 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			

# **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, includ	ing 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
2,6-Di-tert-butyl-p-cresol	-	-	TWA: 10 mg/m <sup>3</sup>
128-37-0			

NIOSH IDLH Immediately Dangerous to Life or Health

Appropriate engineering controls		
Engineering Controls	Ensure adequate ventilation, especially in confined areas.	
Individual protection measures, su	ch 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	light yellow	
Appearance	clear	
Physical state	liquid	
Odor	characteristic	
Property	Values	Remarks
pH	No data available	
Melting point/freezing		
point		
melting point	No information available	
Pour point	-45.0 °C	
freezing point	No information available	
Initial boiling point	260 °C Or more	
flash point	204 °C / 399 °F	Cleveland Open Cup
Flammability Limits in Air		
Upper flammability limits	7 vol%	
Lower flammability limit	1vol%	
Density @15°C	0.9944 g/cm3	
Solubility(ies)		
Water solubility	Insoluble in water	
Kinematic viscosity 40°C	43.32 mm2/s	
Kinematic viscosity 100°C	9.234 mm2/s	
Dropping point	No information available	
	SECTION 10: Stability ar	nd 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

Product Information	No data available
INHALATION	No data available.
Eye contact	No data available.
Skin Contact	No data available.
INGESTION	No data available.

chemical name	Acute toxicity (LD50) -Oral-	Acute toxicity (LD50) -Dermall-	Inhalation LC50
TRICRESYL PHOSPHATE (meta,para isomer mixed) 1330-78-5	3 g/kg (Rat)	3700mg/kg	>11.1mg/L
2,6-Di-tert-butyl-p-cresol 128-37-0	-	>2000mg/kg bw	546mg/m <sup>3</sup>
Phenol, nonyl-, phosphite (3:1) 26523-78-4	10000 mg/kg (Rat)	>2000mg/kg bw	-

#### Information on toxicological effects

Symptoms

No information available.

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

skin corrosion/irritation	No information available.
Sensitization	May cause sensitization by skin contact.
Germ cell mutagenicity	No information available.
Carcinogenicity	This product contains one or more substances which are classified by IARC as carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B)

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

IARC (International Agency for Research on Cancer)

Not classifiable as a human carcinogen

Reproductive toxicityNo information available.STOT - single exposureNo information available.STOT - repeated exposureNo information available.Aspiration hazardNot classified.

### Numerical measures of toxicity - Product Information

Unknown Acute toxicity 0.1% of the mixture consists of ingredient(s) of unknown toxicity The following values are calculated based on chapter 3.1 of the GHS document .

# **SECTION 12: Ecological information**

#### **Ecotoxicity**

2.6% of the mixture consists of components(s) of unknown hazards to the aquatic environment

chemical name Algae/aquatic plants Fish Toxicity to Crus Microorganisms	stacea
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TRICRESYL PHOSPHATE	-	0.21 - 0.32: 96 h	
(meta,para isomer mixed)		Oncorhynchus mykiss mg/L	
1330-78-5		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	5: 48 h Oryzias latipes mg/L	
128-37-0	subcapitata mg/L EC50	LC50	
	0.42: 72 h Desmodesmus		
	subspicatus mg/L EC50		
Phenol, nonyl-, phosphite		10: 96 h Brachydanio rerio	0.42: 48 h Daphnia magna
(3:1)		mg/L LC50 static	mg/L EC50
26523-78-4		-	-

#### Persistence and degradability

No information available.

## **Bioaccumulation**

No information available.

#### Mobility

No information available.

Other adverse effects

No information available

# **SECTION 13: Disposal considerations**

#### Waste treatment methods

**Disposal of wastes** 

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

**Contaminated packaging** 

Do not reuse container.

chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	<b>RCRA - U Series Wastes</b>
Nonylphenols		Included in waste stream:		
25154-52-3		K060		

chemical name	California Hazardous Waste Status
POTASSIUM HYDROXIDE	Toxic
1310-58-3	Corrosive

# **SECTION 14:** Transport information

DOT	Not regulated
TDG	Not regulated
IATA	Not regulated
IMDG	Not regulated
ADR	Not regulated

### IBC

Transport in bulk according to<br/>Annex II of MARPOL 73/78 and<br/>the IBC CodeNot regulatedProper shipping name<br/>CATEGORYNot regulated<br/>Not regulated

# **SECTION 15: Regulatory information**

#### US Federal Regulations

#### <u>SARA 313</u>

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

No
No
No
No
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

chemical name	New Jersey	Massachusetts	Pennsylvania
TRICRESYL PHOSPHATE (meta,para isomer mixed) 1330-78-5	Х		
2,6-Di-tert-butyl-p-cresol 128-37-0	Х	Х	Х

#### U.S. EPA Label Information EPA Pesticide Registration Number Not Applicable International Inventories

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

# **SECTION 16: Other information**

<u>NFPA</u>	Health hazards 0	Flammability 1	Instability 0	Physical and Chemical Properties -
HMIS_	Health hazards 0	Flammability 1	Physical hazards 0	Personal protection X
Issue Date	04-Feb-2013			

#### 06-Oct-2014

Revision date 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