

# NESTE OIL

## SAFETY DATA SHEET NESTE PREMIUM 5W-40

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

#### 1.1. Product identifier

Product name	NESTE PREMIUM 5W-40
Product number	ID 17161
Internal identification	0530

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Engine oil.
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#### 1.3. Details of the supplier of the safety data sheet

Supplier	Neste Markkinointi Oy Keilaranta 21, Espoo, P.O.B. 95, 00095 NESTE OIL, FINLAND Tel. +358 10 45811 Fax +358 10 45 84442 lubetec@nesteoil.com
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#### 1.4. Emergency telephone number

National emergency telephone number	+358-9-471 977, +358-9-4711, Poison Information Centre/HUS, P.O.B 340 (Tukholmankatu 17) 00029 HUS (Helsinki, Finland)
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### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification

Physical hazards	Not Classified
Health hazards	Eye Irrit. 2 - H319
Environmental hazards	Not Classified

#### 2.2. Label elements

##### Pictogram



Signal word	Warning
Hazard statements	H319 Causes serious eye irritation.
Precautionary statements	P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/attention. P102 Keep out of reach of children.

#### 2.3. Other hazards

### SECTION 3: Composition/information on ingredients

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### 3.2. Mixtures

<b>Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based</b>	<b>25 - &lt; 40 %</b>
CAS number: 72623-87-1                      EC number: 276-738-4                      REACH registration number: 01-2119474889-13-XXXX	
<b>Classification</b> Asp. Tox. 1 - H304	
<b>zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)</b>	<b>1 - &lt; 2,5 %</b>
CAS number: 93819-94-4                      EC number: 298-577-9                      REACH registration number: 01-2119543726-33-XXXX	
<b>Classification</b> Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Aquatic Chronic 2 - H411	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>Inhalation</b>	Remove person to fresh air and keep comfortable for breathing. Get medical attention if symptoms are severe or persist.
<b>Ingestion</b>	Rinse mouth. Do not induce vomiting unless under the direction of medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms are severe or persist.
<b>Skin contact</b>	Remove contaminated clothing immediately and wash skin with soap and water.
<b>Eye contact</b>	Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Continue to rinse for at least 15 minutes and get medical attention.

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

**General information**                      Causes serious eye irritation. Vapours/aerosol spray may irritate the respiratory system.

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

**Notes for the doctor**                      Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

**Suitable extinguishing media**      Water spray, dry powder or carbon dioxide.

**Unsuitable extinguishing media**      None known.

#### 5.2. Special hazards arising from the substance or mixture

**Specific hazards**                      None known.

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**Hazardous combustion products** Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO). Hydrocarbons. 氧化锌尘雾. Sulphurous gases (SO<sub>x</sub>). Hydrogen sulphide (H<sub>2</sub>S). Mercaptans.

### 5.3. Advice for firefighters

**Protective actions during firefighting** Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Contain and collect extinguishing water. Avoid discharge into drains.

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** Wear suitable protective clothing as protection against splashing or contamination.

**For emergency responders** Keep unnecessary and unprotected personnel away from the spillage.

### 6.2. Environmental precautions

**Environmental precautions** Stop leak if safe to do so. Avoid the spillage or runoff entering drains, sewers or watercourses. Contain spillage with sand, earth or other suitable non-combustible material. Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).

### 6.3. Methods and material for containment and cleaning up

**Methods for cleaning up** Absorb spillage with sand or other inert absorbent. Place waste in labelled, sealed containers. Dispose of waste via a licensed waste disposal contractor.

### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Avoid inhalation of vapours and spray/mists. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. All handling should only take place in well-ventilated areas. Take precautionary measures against static discharges. For personal protection, see Section 8.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage precautions** Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep containers upright. Keep away from food, drink and animal feeding stuffs.

### 7.3. Specific end use(s)

**Specific end use(s)** Not known.

## SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

### 8.2. Exposure controls

**Appropriate engineering controls** All handling should only take place in well-ventilated areas. Provide eyewash station and safety shower.

**Eye/face protection** Tight-fitting safety glasses.

**Hand protection** Wear protective gloves. It is recommended that gloves are made of the following material: Nitrile rubber. Butyl rubber.

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<b>Other skin and body protection</b>	Wear suitable protective clothing as protection against splashing or contamination.
<b>Respiratory protection</b>	No specific recommendations.
<b>Environmental exposure controls</b>	Store in a demarcated bunded area to prevent release to drains and/or watercourses.

### SECTION 9: Physical and Chemical Properties

#### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Liquid.
<b>Colour</b>	Tan.
<b>Odour</b>	Petroleum.
<b>Odour threshold</b>	-
<b>pH</b>	-
<b>Melting point</b>	< - 39°C
<b>Initial boiling point and range</b>	> 225
<b>Flash point</b>	204°C PMCC (Pensky-Martens closed cup).
<b>Flammability (solid, gas)</b>	-
<b>Upper/lower flammability or explosive limits</b>	-
<b>Vapour pressure</b>	0,01 hPa @ 25°C
<b>Vapour density</b>	-
<b>Relative density</b>	0,853 @ 15,6°C
<b>Solubility(ies)</b>	Insoluble in water.
<b>Partition coefficient</b>	-
<b>Auto-ignition temperature</b>	-
<b>Decomposition Temperature</b>	-
<b>Viscosity</b>	~86 mm <sup>2</sup> /s @ 40°C ~14,0 mm <sup>2</sup> /s @ 100°C
<b>Explosive properties</b>	-
<b>Oxidising properties</b>	-

#### 9.2. Other information

<b>Other information</b>	Not known.
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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

<b>Reactivity</b>	There are no known reactivity hazards associated with this product.
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#### 10.2. Chemical stability

<b>Stability</b>	Stable at normal ambient temperatures and when used as recommended.
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#### 10.3. Possibility of hazardous reactions

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**Possibility of hazardous reactions** No potentially hazardous reactions known.

### 10.4. Conditions to avoid

**Conditions to avoid** None known.

### 10.5. Incompatible materials

**Materials to avoid** Oxidising agents.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Does not decompose when used and stored as recommended.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Toxicological effects** Not classified.

#### Skin corrosion/irritation

**Animal data** Based on available data the classification criteria are not met.

#### Serious eye damage/irritation

**Serious eye damage/irritation** Causes serious eye irritation.

#### Respiratory sensitisation

**Respiratory sensitisation** Based on available data the classification criteria are not met.

#### Skin sensitisation

**Skin sensitisation** Based on available data the classification criteria are not met.

#### Germ cell mutagenicity

**Genotoxicity - in vivo** Based on available data the classification criteria are not met.

#### Carcinogenicity

**Carcinogenicity** Based on available data the classification criteria are not met.

#### Reproductive toxicity

**Reproductive toxicity - fertility** Based on available data the classification criteria are not met.

**Reproductive toxicity - development** Based on available data the classification criteria are not met.

#### Specific target organ toxicity - single exposure

**STOT - single exposure** Based on available data the classification criteria are not met.

#### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Based on available data the classification criteria are not met.

#### Aspiration hazard

**Aspiration hazard** Based on available data the classification criteria are not met.

### Toxicological information on ingredients.

#### Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based

##### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 5,000.0

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<b>Species</b>	Rat
<b>ATE oral (mg/kg)</b>	5,000.0
<b><u>Acute toxicity - dermal</u></b>	
<b>Acute toxicity dermal (LD<sub>50</sub> mg/kg)</b>	5,000.0
<b>Species</b>	Rabbit
<b>ATE dermal (mg/kg)</b>	5,000.0
<b><u>Acute toxicity - inhalation</u></b>	
<b>Acute toxicity inhalation (LC<sub>50</sub> dust/mist mg/l)</b>	5.58
<b>Species</b>	Rat
<b>ATE inhalation (dusts/mists mg/l)</b>	5.58
<b><u>Skin corrosion/irritation</u></b>	
<b>Animal data</b>	Not irritating. Rabbit
<b><u>Serious eye damage/irritation</u></b>	
<b>Serious eye damage/irritation</b>	Not irritating. Rabbit
<b><u>Skin sensitisation</u></b>	
<b>Skin sensitisation</b>	Not sensitising. Buehler test Guinea pig
<b><u>Aspiration hazard</u></b>	
<b>Aspiration hazard</b>	May be fatal if swallowed and enters airways.

**zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)**

<b><u>Acute toxicity - oral</u></b>	
<b>Acute toxicity oral (LD<sub>50</sub> mg/kg)</b>	2,600.0
<b>Species</b>	Rat
<b>ATE oral (mg/kg)</b>	2,600.0
<b><u>Skin corrosion/irritation</u></b>	
<b>Animal data</b>	Irritating to skin.
<b><u>Serious eye damage/irritation</u></b>	
<b>Serious eye damage/irritation</b>	Causes burns. Causes serious eye irritation.

**SECTION 12: Ecological Information****12.1. Toxicity**

<b>Toxicity</b>	The product is not expected to be hazardous to the environment. Based on available data the classification criteria are not met.
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### Ecological information on ingredients.

#### Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based

<b>Acute toxicity - fish</b>	LL <sub>50</sub> >100 mg/l, 96 h Pimephales promelas (Fat-head Minnow) WAF OECD TG 203
<b>Acute toxicity - aquatic invertebrates</b>	EL 50: >10 000 mg/l, 48 h Daphnia magna WAF OECD TG 202
<b>Acute toxicity - aquatic plants</b>	NOEL: >=100 mg/l, 72 h Pseudokirchneriella subcapitata WAF OECD TG 201
<b>Chronic toxicity - fish early life stage</b>	Estimated value. NOELR: >=1 000 mg/l, 14 d Onchorhynchus mykiss (Rainbow trout)
<b>Chronic toxicity - aquatic invertebrates</b>	NOEL: 10 mg/l, 21d Daphnia magna WAF OECD TG 211

#### zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)

<b>Acute toxicity - fish</b>	LL <sub>50</sub> 4,5 mg/l, 96 h Onchorhynchus mykiss (Rainbow trout)
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> 5,4 mg/l, 48 h Daphnia magna
<b>Acute toxicity - aquatic plants</b>	EC <sub>50</sub> 2,1 mg/l, 72 h Selenastrum capricornutum

### 12.2. Persistence and degradability

**Persistence and degradability** No data available.

**Biodegradation** No data available.

### Ecological information on ingredients.

#### Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based

<b>Biodegradation</b>	2-4 %, 28 d OECD TG 301 B
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#### zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)

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**Biodegradation** 1,5 %, 28 d

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

**Partition coefficient** -

### Ecological information on ingredients.

zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)

**Partition coefficient** log Pow 0,59-1,2 @ 23°C

### 12.4. Mobility in soil

**Mobility** No data available.

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** No data available.

### 12.6. Other adverse effects

**Other adverse effects** None known.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Do not reuse empty containers.

## SECTION 14: Transport information

**General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

### 14.1. UN number

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**UN No. (ADR/RID)** -

### 14.2. UN proper shipping name

**Proper shipping name (ADR/RID)** -

### 14.3. Transport hazard class(es)

**ADR/RID class** -

### 14.4. Packing group

**ADR/RID packing group** -

### 14.5. Environmental hazards

**Environmentally hazardous substance/marine pollutant**

No.

### 14.6. Special precautions for user

Not applicable.

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### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

### **SECTION 15: Regulatory information**

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

**EU legislation** Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).  
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

#### 15.2. Chemical safety assessment

No data available.

### **SECTION 16: Other information**

<b>Revision comments</b>	This is first issue. (new SDS software has been introduced)
<b>Revision date</b>	07/09/2015
<b>Supersedes date</b>	14/11/2013
<b>SDS number</b>	5319
<b>Hazard statements in full</b>	H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation. H411 Toxic to aquatic life with long lasting effects.