



## SAFETY DATA SHEET

### NESTE PREMIUM AXLE 80W-140

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

##### 1.1. Product identifier

|                                |   |
|--------------------------------|---|
| <b>Product name</b>            | NESTE PREMIUM AXLE 80W-140  |
| <b>Product number</b>          | ID 19012  |
| <b>Internal identification</b> | 2148  |
| <b>Synonyms; trade names</b>   | Previous product name: NESTE HYPOIDI LF 80W-140, product number 2426, ID 16106. |

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

|                        |                   |
|------------------------|-------------------|
| <b>Identified uses</b> | Transmission oil. |
|------------------------|-------------------|

##### 1.3. Details of the supplier of the safety data sheet

###### Supplier

Neste Markkinointi Oy  
Keilaranta 21, Espoo, PL 95, FIN-00095 NESTE, FINLAND  
Tel. +358 10 45811  
lubetec@neste.com

##### 1.4. Emergency telephone number

**National emergency telephone number** +358-9-471 977, +358-9-4711, Poison Information Centre

#### SECTION 2: Hazards identification

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

###### Classification (EC 1272/2008)

|                              |                     |
|------------------------------|---------------------|
| <b>Physical hazards</b>      | Not Classified      |
| <b>Health hazards</b>        | Skin Sens. 1 - H317 |
| <b>Environmental hazards</b> | Not Classified      |

##### 2.2. Label elements

###### Pictogram



**Signal word** Warning

**Hazard statements** H317 May cause an allergic skin reaction.

**Precautionary statements** P362+P364 Take off contaminated clothing and wash it before reuse.  
P501 Dispose of contents/ container in accordance with national regulations.  
P102 Keep out of reach of children.  
P261 Avoid breathing vapours.  
P280 Wear protective gloves.

## NESTE PREMIUM AXLE 80W-140

**Contains** Di-tert-butyl polysulfide, Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)

### 2.3. Other hazards

#### SECTION 3: Composition/information on ingredients

##### 3.2. Mixtures

|                                  |  |
|----------------------------------|--|
| <b>Di-tert-butyl polysulfide</b> | <b>2,5 - &lt; 5 %</b>                            |
| CAS number: 68937-96-2           | EC number: 273-103-3                             |
|                                  | REACH registration number: 01-2119540515-43-XXXX |

**Classification**  
Skin Sens. 1B - H317  
Aquatic Chronic 3 - H412

|  |  |
|--|--|
| <b>Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)</b> | <b>1 - &lt; 2,5 %</b>                            |
| CAS number: —  | EC number: 931-384-6                             |
|  | REACH registration number: 01-2119493620-38-XXXX |

**Classification**  
Acute Tox. 4 - H302  
Eye Dam. 1 - H318  
Skin Sens. 1 - H317  
Aquatic Chronic 2 - H411

|   |  |
|---|--|
| <b>Distillates (petroleum), hydrotreated heavy paraffinic</b> | <b>1 - &lt; 2,5 %</b>                            |
| CAS number: 64742-54-7  | EC number: 265-157-1                             |
|   | REACH registration number: 01-2119484627-25-XXXX |

**Classification**  
Asp. Tox. 1 - H304

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. Get medical attention promptly if symptoms occur after washing.  |
| <b>Eye contact</b>  | Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists after washing.                              |

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

**General information** The product contains a sensitising substance. May cause an allergic skin reaction.

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### 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, foam, dry powder or carbon dioxide.

**Unsuitable extinguishing media**      Do not use water jet as an extinguisher, as this will spread the fire.

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

**Specific hazards**                              Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back.

**Hazardous combustion products**      Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO). Hydrocarbons. Aldehydes. Nitrous gases (NO<sub>x</sub>). Sulphurous gases (SO<sub>x</sub>). Hydrogen sulphide (H<sub>2</sub>S). Ketones.

#### 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)

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

### SECTION 8: Exposure Controls/personal protection

#### 8.1. Control parameters

#### 8.2. Exposure controls

|   |  |
|---|--|
| <b>Appropriate engineering controls</b> | All handling should only take place in well-ventilated areas. Avoid the formation of mists. Provide eyewash station and safety shower. |
| <b>Eye/face protection</b>              | Tight-fitting safety glasses.  |
| <b>Hand protection</b>                  | Wear protective gloves. It is recommended that gloves are made of the following material: Nitrile rubber. Butyl rubber.                |
| <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>                                | -                             |
| <b>Initial boiling point and range</b>              | > 350°C                       |
| <b>Flash point</b>                                  | 153°C                         |
| <b>Flammability (solid, gas)</b>                    | -                             |
| <b>Upper/lower flammability or explosive limits</b> | -                             |
| <b>Vapour pressure</b>                              | -                             |
| <b>Vapour density</b>                               | -                             |
| <b>Relative density</b>                             | 0,851 @ 20°C                  |
| <b>Solubility(ies)</b>                              | Insoluble in water.           |
| <b>Partition coefficient</b>                        | -                             |
| <b>Auto-ignition temperature</b>                    | -                             |
| <b>Decomposition Temperature</b>                    | -                             |
| <b>Viscosity</b>                                    | 177 mm <sup>2</sup> /s @ 40°C |
| <b>Explosive properties</b>                         | -                             |
| <b>Oxidising properties</b>                         | -                             |

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### 9.2. Other information

Other information Not known.

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

**Reactivity** There are no known reactivity hazards associated with this product.

#### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures and when used as recommended.

#### 10.3. Possibility of hazardous reactions

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

#### 10.4. Conditions to avoid

**Conditions to avoid** Avoid exposure to high temperatures or direct sunlight.

#### 10.5. Incompatible materials

**Materials to avoid** Oxidising agents.

#### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Aldehydes. Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO). Hydrocarbons. Hydrogen sulphide (H<sub>2</sub>S). Nitrous gases (NO<sub>x</sub>). Sulphurous gases (SO<sub>x</sub>).

### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

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

#### Skin corrosion/irritation

**Skin corrosion/irritation** Based on available data the classification criteria are not met.

#### Serious eye damage/irritation

**Serious eye damage/irritation** May irritate eyes. Based on available data the classification criteria are not met. Supplier's information. Bridging principle (Dilution).

#### Respiratory sensitisation

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

#### Skin sensitisation

**Skin sensitisation** May cause sensitisation by skin contact.

#### 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.

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### 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.

#### Di-tert-butyl polysulfide

##### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub> >2000 mg/kg, Oral, Rat (OECD TG 401)

##### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub> >2000 mg/kg, Dermal, Rat (OECD TG 402)

#### Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)

##### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub> ~ 2000 mg/kg, Oral, Rat (OECD TG 401)

**ATE oral (mg/kg)** 500.0

#### Distillates (petroleum), hydrotreated heavy paraffinic

##### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub> > 15000 mg/kg, Oral, Rat

##### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub> > 5000 mg/kg, Dermal, Rabbit

## SECTION 12: Ecological Information

### 12.1. Toxicity

**Toxicity** The product is not expected to be hazardous to the environment. Based on available data the classification criteria are not met.

#### Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)

**Acute toxicity - fish** LL<sub>50</sub>, 96 hours: ~ 24 mg/l, Onchorhynchus mykiss (Rainbow trout)  
WAF (OECD TG 203)

**Acute toxicity - aquatic invertebrates** EL<sub>50</sub>, 48 hours: ~ 91,4 mg/l, Daphnia magna  
WAF (OECD TG 202)

**Acute toxicity - aquatic plants** ErC<sub>50</sub>, 96 hours: 15 mg/l, Pseudokirchneriella subcapitata (OECD TG 201)  
NOEC, 96 hours: 3,3 mg/l, Pseudokirchneriella subcapitata (OECD TG 201)

**Chronic toxicity - aquatic invertebrates** NOEC, 21 days: 0,12 mg/l, Daphnia magna  
WAF (OECD TG 211)

#### Distillates (petroleum), hydrotreated heavy paraffinic

**Acute toxicity - fish** LL<sub>50</sub>, : > 100 mg/l,

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|   |                       |
|---|-----------------------|
| <b>Acute toxicity - aquatic invertebrates</b>   | EL50, : > 10000 mg/l, |
| <b>Acute toxicity - aquatic plants</b>          | EL50, : > 100 mg/l,   |
| <b>Chronic toxicity - fish early life stage</b> | NOEC, : 10 mg/l,      |
| <b>Chronic toxicity - aquatic invertebrates</b> | NOEC, : 10 mg/l,      |

### 12.2. Persistence and degradability

**Persistence and degradability** No data available.

**Biodegradation** No data available.

### Di-tert-butyl polysulfide

**Biodegradation** Not readily biodegradable.  
- Degradation 13 %: 28 days  
(OECD TG 301B)

### Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)

**Biodegradation** Not readily biodegradable.  
- Degradation 7,4 %: 28 days

### 12.3. Bioaccumulative potential

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

**Partition coefficient** -

### 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

**NESTE PREMIUM AXLE 80W-140**

-  
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.

**14.7. Transport in bulk according to Annex II of MARPOL 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).  
Commission Regulation (EU) No 2015/830 of 28 May 2015.  
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**

**Key literature references and sources for data** The manufacturer's SDS. 31.7.2016

**Revision comments** Product name change.

**Revision date** 01/09/2017

**Supersedes date** 13/01/2017

**SDS number** 5556



## NESTE PREMIUM AXLE 80W-140

### **Hazard statements in full**

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.