



SAFETY DATA SHEET

NESTE PRO AXLE TDL 75W-90

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

1.1. Product identifier

| | |
|--------------------------------|---|
| Product name | NESTE PRO AXLE TDL 75W-90 |
| Product number | ID 19026 |
| Internal identification | 2152 |
| Synonyms; trade names | Previous product name: NESTE HYPOIDI TDL S 75W-90, product number 2408, ID 14070. |

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

| | |
|------------------------|-------------------|
| Identified uses | Transmission oil. |
|------------------------|-------------------|

1.3. Details of the supplier of the safety data sheet

| | |
|-----------------|---|
| Supplier | Neste Markkinointi Oy Keilaranta 21, Espoo, P.O.B. 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)

| | |
|------------------------------|---------------------|
| Physical hazards | Not Classified |
| Health hazards | Skin Sens. 1 - H317 |
| Environmental hazards | Not Classified |

2.2. Label elements

Pictogram



| | |
|---------------------------------|--|
| Signal word | Warning |
| Hazard statements | H317 May cause an allergic skin reaction. |
| Precautionary statements | P102 Keep out of reach of children. P261 Avoid breathing vapour/ spray. P280 Wear protective gloves. P362+P364 Take off contaminated clothing and wash it before reuse. P501 Dispose of contents/ container in accordance with national regulations. |
| 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) |

NESTE PRO AXLE TDL 75W-90

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

| | | | |
|--|----------------------|--|-------------------------|
| Dec-1-ene, homopolymer, hydrogenated | | | 50 - < 60 % |
| CAS number: 68037-01-4 | EC number: 500-183-1 | REACH registration number: 01-2119486452-34-XXXX | |
| Classification | | | |
| Asp. Tox. 1 - H304 | | | |
| Di-tert-butyl polysulfide | | | 2,5 - < 5 % |
| 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 | | | |
| Distillates (petroleum), hydrotreated heavy paraffinic | | | 1 - < 2,5 % |
| CAS number: 64742-54-7 | EC number: 265-157-1 | REACH registration number: 01-2119484627-25-XXXX | |
| Classification | | | |
| Asp. Tox. 1 - H304 | | | |
| Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched) | | | 1 - < 2,5 % |
| 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 | | | |
| O,O,O-triphenyl phosphorothioate | | | 0,3 - < 0,5 % |
| CAS number: 597-82-0 | EC number: 209-909-9 | REACH registration number: 01-2119979545-21-XXXX | |
| Classification | | | |
| Repr. 2 - H361 Aquatic Chronic 4 - H413 | | | |

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

NESTE PRO AXLE TDL 75W-90

| | |
|---------------------|--|
| Inhalation | Remove person to fresh air and keep comfortable for breathing. Get medical attention if symptoms are severe or persist. |
| Ingestion | 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. |
| Skin contact | Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention promptly if symptoms occur after washing. |
| Eye contact | 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. May cause eye irritation. |
|----------------------------|--|

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 ₂). Carbon monoxide (CO). Hydrocarbons. Sulphurous gases (SO _x). Nitrous gases (NO _x). Hydrogen sulphide (H ₂ S). Aldehydes. |

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

NESTE PRO AXLE TDL 75W-90

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. Avoid the formation of mists. 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.

Other skin and body protection Wear suitable protective clothing as protection against splashing or contamination.

Respiratory protection No specific recommendations.

Environmental exposure controls 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

| | |
|--|---------------------------|
| Appearance | Liquid. |
| Colour | Tan. |
| Odour | Petroleum. |
| Odour threshold | - |
| pH | - |
| Melting point | < -48°C Pour point |
| Initial boiling point and range | - |
| Flash point | 196°C Cleveland open cup. |
| Flammability (solid, gas) | - |
| Vapour density | - |
| Relative density | ~ 0,865 @ 15°C |
| Solubility(ies) | Insoluble in water. |

NESTE PRO AXLE TDL 75W-90

| | |
|----------------------------------|---|
| Partition coefficient | - |
| Auto-ignition temperature | - |
| Decomposition Temperature | - |
| Viscosity | Kinematic viscosity ~ 101 mm ² /s @ 40°C |
| Explosive properties | - |
| Oxidising properties | - |

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 ₂). Carbon monoxide (CO). Hydrocarbons. Hydrogen sulphide (H ₂ S). Nitrous gases (NO _x). Sulphurous gases (SO _x). |
|---|--|

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. May cause skin irritation. |
|----------------------------------|---|

Serious eye damage/irritation

| | |
|--------------------------------------|--|
| Serious eye damage/irritation | Based on available data the classification criteria are not met. May irritate eyes. 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

NESTE PRO AXLE TDL 75W-90

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.

Dec-1-ene, homopolymer, hydrogenated

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ > 5000 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ > 2000 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LC₅₀ > 5,2 mg/l, (4h), Inhalation, Rat

Di-tert-butyl polysulfide

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ > 2000 mg/kg, Oral, Rat (OECD TG 401)

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ > 2000 mg/kg, Dermal, Rat (OECD TG 402)

Distillates (petroleum), hydrotreated heavy paraffinic

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ > 15000 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ > 5000 mg/kg, Dermal, Rabbit

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 LD₅₀) LD₅₀ ~ 2000 mg/kg, Oral, Rat (OECD TG 401)

ATE oral (mg/kg) 500.0

SECTION 12: Ecological Information

12.1. Toxicity

NESTE PRO AXLE TDL 75W-90

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

Ecological information on ingredients.**Dec-1-ene, homopolymer, hydrogenated****Acute aquatic toxicity**

Acute toxicity - fish LL₅₀, 96 hours: > 1000 mg/l, Oncorhynchus mykiss (Rainbow trout)
WAF

Acute toxicity - aquatic invertebrates EL50, 48 hours: > 1000 mg/l, Daphnia magna
WAF (OECD TG 202)

Acute toxicity - aquatic plants EL50, 72 hours: > 1000 mg/l, Algae
WAF (OECD TG 201)

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates NOELR, 21 days: 125 mg/l, Daphnia magna
WAF (OECD TG 211)

Distillates (petroleum), hydrotreated heavy paraffinic**Acute aquatic toxicity**

Acute toxicity - fish LL₅₀, : > 100 mg/l,

Acute toxicity - aquatic invertebrates EL50, : > 10000 mg/l,

Acute toxicity - aquatic plants EL50, : > 100 mg/l,

Chronic aquatic toxicity

Chronic toxicity - fish early life stage NOEC, : 10 mg/l,

Chronic toxicity - aquatic invertebrates NOEC, : 10 mg/l,

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

Acute toxicity - fish LL₅₀, 96 hours: ~ 24 mg/l, Oncorhynchus mykiss (Rainbow trout)
WAF (OECD TG 203)

Acute toxicity - aquatic invertebrates EL50, 48 hours: ~ 91,4 mg/l, Daphnia magna
WAF (OECD TG 202)

Acute toxicity - aquatic plants ErC50, 96 hours: 15 mg/l, Pseudokirchneriella subcapitata
(OECD TG 201)
NOEC, 96 hours: 3,3 mg/l, Pseudokirchneriella subcapitata
(OECD TG 201)

Chronic aquatic toxicity

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

NESTE PRO AXLE TDL 75W-90**O,O,O-triphenyl phosphorothioate****Acute aquatic toxicity**

| | |
|---|--|
| Acute toxicity - fish | LC ₅₀ , 96 hours: > 100 mg/l, Brachydanio rerio (Zebra Fish) OECD TG 203 |
| Acute toxicity - aquatic invertebrates | EC ₅₀ , 48 hours: > 100 mg/l, Daphnia magna OECD TG 202 |
| Acute toxicity - aquatic plants | EC ₅₀ , 72 hours: > 100 mg/l, Desmodosmus subspicatus OECD TG 201 |

12.2. Persistence and degradability

Persistence and degradability No data available.

Biodegradation No data available.

Ecological information on ingredients.**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

O,O,O-triphenyl phosphorothioate

Biodegradation Not inherently biodegradable.
18 %, 28 d

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient -

Ecological information on ingredients.**Dec-1-ene, homopolymer, hydrogenated**

Partition coefficient log Pow > 6,5

O,O,O-triphenyl phosphorothioate

Partition coefficient log Pow 5,0

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

NESTE PRO AXLE TDL 75W-90

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

-

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

NESTE PRO AXLE TDL 75W-90

| | |
|---|---|
| Abbreviations and acronyms used in the safety data sheet | ATE = Acute Toxicity Estimate WAF = Water Accommodated Fraction |
| Key literature references and sources for data | The manufacturer's SDS. 3.1.2018 |
| Revision comments | Revised formulation. Updated, sections: 3, 9 |
| Revision date | 25/01/2018 |
| Supersedes date | 01/09/2017 |
| SDS number | 5570 |
| 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. H361 Suspected of damaging fertility or the unborn child. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. H413 May cause long lasting harmful effects to aquatic life. |