



## SAFETY DATA SHEET

### NESTE TURBO+ LSA 10W-40

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

##### 1.1. Product identifier

Product name	NESTE TURBO+ LSA 10W-40
Product number	ID 20170
Internal identification	1874

##### 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, FIN-00095 NESTE, FINLAND Tel. +358 10 45811 lubetec@neste.com
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##### 1.4. Emergency telephone number

National emergency telephone number	+358 800 147 111, +358 9 471 977, Poison Information Centre
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#### SECTION 2: Hazards identification

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

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

Physical hazards	Not Classified
Health hazards	Not Classified
Environmental hazards	Aquatic Chronic 3 - H412

##### 2.2. Label elements

Hazard statements	EUH208 Contains N,N-bis(2-ethylhexyl)-((1,2,4-triazol-1-yl)methyl)amine. May produce an allergic reaction. H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	P102 Keep out of reach of children. P273 Avoid release to the environment. P501 Dispose of contents/ container in accordance with national regulations.

##### 2.3. Other hazards

Other hazards	This product does not contain any substances classified as PBT or vPvB.
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#### SECTION 3: Composition/information on ingredients

##### 3.2. Mixtures

## NESTE TURBO+ LSA 10W-40

**Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based** **15 - < 25 %**

CAS number: 72623-87-1

EC number: 276-738-4

REACH registration number: 01-2119474889-13

**Classification**

Asp. Tox. 1 - H304

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

**5 - < 10 %**

CAS number: 64742-54-7

EC number: 265-157-1

REACH registration number: 01-2119484627-25-XXXX

**Classification**

Asp. Tox. 1 - H304

**O,O,O-Triphenylthiophosphate**

**0,1 - < 0,5 %**

CAS number: 597-82-0

REACH registration number: 01-2119979545-21-XXXX

**Classification**

Repr. 2 - H361

**N,N-bis(2-ethylhexyl)-((1,2,4-triazol-1-yl)methyl)amine**

**0,1 - < 0,25 %**

CAS number: 91273-04-0

EC number: 401-280-0

REACH registration number: 01-2119930450-49-XXXX

**Classification**

Skin Corr. 1B - H314

Skin Sens. 1 - H317

Aquatic Chronic 2 - H411

**Phenol, dodecyl-, branched**

**0,025 - < 0,1 %**

CAS number: 121158-58-5

EC number: 310-154-3

REACH registration number: 01-2119513207-49-XXXX

M factor (Acute) = 10

M factor (Chronic) = 10

**Classification**

Skin Corr. 1C - H314

Eye Dam. 1 - H318

Repr. 1B - H360F

Aquatic Acute 1 - H400

Aquatic Chronic 1 - H410

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****Inhalation**

Remove person to fresh air and keep comfortable for breathing. Get medical attention if symptoms are severe or persist.

## NESTE TURBO+ LSA 10W-40

<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.
<b>Skin contact</b>	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation persists after washing. Wash contaminated clothing before reuse.
<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

<b>General information</b>	The product contains a small amount of sensitising substance. May cause an allergic skin reaction.
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### 4.3. Indication of any immediate medical attention and special treatment needed

<b>Notes for the doctor</b>	Treat symptomatically.
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Water spray, foam, dry powder or carbon dioxide.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.

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

<b>Specific hazards</b>	None known.
<b>Hazardous combustion products</b>	Carbon dioxide (CO <sub>2</sub> ). Carbon monoxide (CO).

### 5.3. Advice for firefighters

<b>Protective actions during firefighting</b>	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.
<b>Special protective equipment for firefighters</b>	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

<b>Personal precautions</b>	Wear suitable protective clothing as protection against splashing or contamination. Provide adequate ventilation.
<b>For emergency responders</b>	Keep unnecessary and unprotected personnel away from the spillage.

### 6.2. Environmental precautions

<b>Environmental precautions</b>	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).
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### 6.3. Methods and material for containment and cleaning up

<b>Methods for cleaning up</b>	Absorb spillage with sand or other inert absorbent. Place waste in labelled, sealed containers. Dispose of waste via a licensed waste disposal contractor.
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### 6.4. Reference to other sections

<b>Reference to other sections</b>	For personal protection, see Section 8.
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## SECTION 7: Handling and storage

## NESTE TURBO+ LSA 10W-40

### 7.1. Precautions for safe handling

<b>Usage precautions</b>	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. Wash hands thoroughly after handling. Persons susceptible to allergic reactions should not handle this product. Take precautionary measures against static discharges. For personal protection, see Section 8.
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### 7.2. Conditions for safe storage, including any incompatibilities

<b>Storage precautions</b>	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.
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### 7.3. Specific end use(s)

<b>Specific end use(s)</b>	Not known.
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## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

#### Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (CAS: 72623-87-1)

<b>DNEL</b>	Workers - Inhalation; Long term local effects: 5,4 mg/m <sup>3</sup> , (8h), Aerosol Consumer - Inhalation; Long term local effects: 1,2 mg/m <sup>3</sup> , (24h), Aerosol Available hazard data do not enable the derivation of a DNEL for dermal irritant effects. Available hazard data do not support the need for a DNEL to be established for other health effects.
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### 8.2. Exposure controls

<b>Appropriate engineering controls</b>	All handling should only take place in well-ventilated areas. 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>	< -36°C Pour point
<b>Flash point</b>	222°C Cleveland open cup.

## NESTE TURBO+ LSA 10W-40

Flammability (solid, gas)	-
Upper/lower flammability or explosive limits	-
Vapour pressure	-
Vapour density	-
Relative density	0,860 @ 15°C
Solubility(ies)	Insoluble in water.
Partition coefficient	-
Auto-ignition temperature	-
Decomposition Temperature	-
Viscosity	Dynamic viscosity ~6800 mPa s @ -25°C Kinematic viscosity 90,3 mm <sup>2</sup> /s @ 40°C ASTM D445
Explosive properties	-
Oxidising properties	-

### 9.2. Other information

Other information	Not known.
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

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

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

Possibility of hazardous reactions	No potentially hazardous reactions known.
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### 10.4. Conditions to avoid

Conditions to avoid	Avoid exposure to high temperatures or direct sunlight.
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### 10.5. Incompatible materials

Materials to avoid	Oxidising agents.
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### 10.6. Hazardous decomposition products

Hazardous decomposition products	None known.
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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Toxicological effects	Based on available data the classification criteria are not met.
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### Skin corrosion/irritation

Skin corrosion/irritation	Based on available data the classification criteria are not met.
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### Serious eye damage/irritation

Serious eye damage/irritation	Based on available data the classification criteria are not met.
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## NESTE TURBO+ LSA 10W-40

### Respiratory sensitisation

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

### Skin sensitisation

**Skin sensitisation** The product contains a small amount of sensitising substance. May cause an allergic skin reaction. 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

**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub> > 5000 mg/kg, Oral, Rat (OECD 401)

##### Acute toxicity - dermal

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

##### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** LC<sub>50</sub> > 5,53 mg/l, Inhalation, Rat (OECD 403)

#### 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

#### O,O,O-Triphenylthiophosphate

##### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub> > 10 000 mg/kg, Oral, Rat

##### Acute toxicity - dermal

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

#### N,N-bis(2-ethylhexyl)-((1,2,4-triazol-1-yl)methyl)amine

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### Acute toxicity - oral

Notes (oral LD<sub>50</sub>) LD<sub>50</sub> 2356 mg/kg, Oral, Rat

### Acute toxicity - dermal

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

### Phenol, dodecyl-, branched

### Acute toxicity - oral

Notes (oral LD<sub>50</sub>) LD<sub>50</sub> 2100 mg/kg, Oral, Rat

### Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) LD<sub>50</sub> 15 000 mg/kg, Dermal, Rabbit

## SECTION 12: Ecological information

### 12.1. Toxicity

**Toxicity** Harmful to aquatic life with long lasting effects.

### Ecological information on ingredients.

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

### Acute aquatic toxicity

**Acute toxicity - fish** LL<sub>50</sub>, 96 hours: > 100 mg/l, Pimephales promelas (Fat-head Minnow)  
NOEL, 96 hours: ≥ 100 mg/l,  
WAF (OECD 203)

**Acute toxicity - aquatic invertebrates** EL<sub>50</sub>, 48 hours: > 10000 mg/l, Daphnia magna  
NOEL, 48 - 96 hours: ≥ 10000 mg/l,  
LL<sub>50</sub>, 24 - 96 hours: > 10000 mg/l,  
WAF (OECD 202)

**Acute toxicity - aquatic plants** NOEL, 72 hours: ≥ 100 mg/l, Pseudokirchneriella subcapitata  
WAF (OECD 201)

**Acute toxicity - microorganisms** NOEL, 10 minutes: > 1,93 mg/l, Micro-organisms (wastewater sludge)  
(DIN 38412, DIN38409)

### Chronic aquatic toxicity

**Chronic toxicity - fish early life stage** NOELR, 14 days: ≥ 1000 mg/l, Oncorhynchus mykiss (Rainbow trout)

**Chronic toxicity - aquatic invertebrates** NOEL, 21 days: 10 mg/l, Daphnia magna  
WAF (OECD 211)

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

### Acute aquatic toxicity

**Acute toxicity - fish** LL<sub>50</sub>, 96 hours: > 100 mg/l,

**Acute toxicity - aquatic invertebrates** EL<sub>50</sub>, 48 hours: > 10000 mg/l,

**Acute toxicity - aquatic plants** EL<sub>50</sub>, 72 hours: > 100 mg/l,

### Chronic aquatic toxicity

## NESTE TURBO+ LSA 10W-40

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

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

### O,O,O-Triphenylthiophosphate

#### Acute aquatic toxicity

Acute toxicity - fish LC<sub>50</sub>, 96 hours: > 100 mg/l, Danio rerio  
OECD TG 203

Acute toxicity - aquatic invertebrates EC<sub>50</sub>, 48 hours: > 100 mg/l, Daphnia magna  
OECD TG 202

Acute toxicity - aquatic plants EC<sub>50</sub>, 72 hours: > 100 mg/l, Desmodesmus subspicatus  
WAF  
OECD TG 201

### N,N-bis(2-ethylhexyl)-((1,2,4-triazol-1-yl)methyl)amine

#### Acute aquatic toxicity

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 1,1 mg/l, Danio rerio

Acute toxicity - aquatic invertebrates EC<sub>50</sub>, 24 hours: 9,3 mg/l, Daphnia magna

Acute toxicity - aquatic plants NOEC, 72 hours: 0,32 mg/l, Desmodesmus subspicatus

#### Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates NOEC, 21 days: 0,039 mg/l, Daphnia magna

### Phenol, dodecyl-, branched

#### Acute aquatic toxicity

LE(C)<sub>50</sub> 0.01 < L(E)C<sub>50</sub> ≤ 0.1

M factor (Acute) 10

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 40 mg/l, Pimephales promelas (Fat-head Minnow)  
WAF

Acute toxicity - aquatic invertebrates EC<sub>50</sub>, 48 hours: 0,037 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC<sub>50</sub>, 72 hours: 0,36 mg/l, Desmodesmus subspicatus  
NOEC, 72 hours: 0,07 mg/l, Desmodesmus subspicatus

#### Chronic aquatic toxicity

M factor (Chronic) 10

Chronic toxicity - aquatic invertebrates NOEC, 21 days: 0,0037 mg/l, Daphnia magna

## 12.2. Persistence and degradability

Persistence and degradability No data available.



## NESTE TURBO+ LSA 10W-40

**Biodegradation** No data available.

### Ecological information on ingredients.

#### O,O,O-Triphenylthiophosphate

**Biodegradation** Not readily biodegradable.  
18 %, 28 d, OECD TG 301 B  
59,9 -66,8 %, 28 d, OECD TG 302 C

#### N,N-bis(2-ethylhexyl)-((1,2,4-triazol-1-yl)methyl)amine

**Biodegradation** Not readily biodegradable.  
9 %, 28 d, OECD TG 301 B

#### Phenol, dodecyl-, branched

**Persistence and degradability** Not readily biodegradable.  
25 %, 28 d, OECD TG 301 B

### 12.3. Bioaccumulative potential

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

**Partition coefficient** -

### Ecological information on ingredients.

#### O,O,O-Triphenylthiophosphate

**Bioaccumulative potential** BCF: 2.551

**Partition coefficient** log Pow: 5,0

#### Phenol, dodecyl-, branched

**Partition coefficient** log Pow: 7

### 12.4. Mobility in soil

**Mobility** No data available.

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

### 12.6. Other adverse effects

**Other adverse effects** Harmful to aquatic life with long lasting effects.

## 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. Do not discharge into drains or watercourses or onto the ground. 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

## NESTE TURBO+ LSA 10W-40

**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.

### 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. 16.2.2021

**Revision comments** Revised formulation. Revised classification. NOTE: Lines within the margin indicate significant changes from the previous revision.

**Revision date** 09/03/2021

**Supersedes date** 27/06/2019

**SDS number** 6329

## NESTE TURBO+ LSA 10W-40

### Hazard statements in full

H304 May be fatal if swallowed and enters airways.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H360F May damage fertility.

H361 Suspected of damaging fertility or the unborn child.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

EUH208 Contains N,N-bis(2-ethylhexyl)-((1,2,4-triazol-1-yl)methyl)amine. May produce an allergic reaction.