



SAFETY DATA SHEET

NESTE TURBO NEX 10W-40

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

1.1. Product identifier

Product name NESTE TURBO NEX 10W-40
Product number ID 17274
Internal identification 112111, 112120, 112100

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

Identified uses Engine oil.

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@neste.com

1.4. Emergency telephone number

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

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 H412 Harmful to aquatic life with long lasting effects.
EUH208 Contains Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts. May produce an allergic reaction.

Precautionary statements P273 Avoid release to the environment.
P501 Dispose of contents/ container in accordance with national regulations.
P102 Keep out of reach of children.

2.3. Other hazards

Other hazards Risk of soil and ground water contamination.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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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			
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts			1 - < 2,5 % *
CAS number: 84605-29-8	EC number: 283-392-8	REACH registration number: 01-2119493626-26-XXXX	
Classification			
Skin Irrit. 2 - H315			
Eye Dam. 1 - H318			
Aquatic Chronic 2 - H411			
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts			0,5 - < 1,0 % *
CAS number: 70024-69-0	EC number: 274-263-7	REACH registration number: 01-2119492616-28-XXXX	
Classification			
Skin Sens. 1B - H317			
Phenol, dodecyl-, branched			0,1 - < 0,25 %
CAS number: 121158-58-5	EC number: 310-154-3	REACH registration number: 01-2119513207-49-XXXX	
M factor (Acute) = 1	M factor (Chronic) = 1		
Classification			
Skin Irrit. 2 - H315			
Eye Irrit. 2 - H319			
Repr. 2 - H361f			
Aquatic Acute 1 - H400			
Aquatic Chronic 1 - H410			

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

Ingredient notes

Special concentration limit

* CAS: 84605-29-8

Skin Irrit. 2 - H315; 6,25 - 100 %

Eye Dam. 1 - H318; > 12,5 - 100 %, Eye Irrit. 2 - H319; > 10 - 12,5 %

* CAS: 70024-69-0

Skin Sens. 1B - H317; 10 - 100 %

SECTION 4: First aid measures**4.1. Description of first aid measures**

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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.
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 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

Notes for the doctor	Treat symptomatically.
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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. Oxides of phosphorus.

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).
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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.
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6.4. Reference to other sections

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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.

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	< -39°C Pour point
Initial boiling point and range	-
Flash point	188°C
Flammability (solid, gas)	-
Upper/lower flammability or explosive limits	-
Vapour pressure	-

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Vapour density	-
Relative density	0,859 @ 15°C
Solubility(ies)	Immiscible with water.
Partition coefficient	-
Auto-ignition temperature	-
Decomposition Temperature	-
Viscosity	Kinematic viscosity ~ 93 mm ² /s @ 40°C Dynamic viscosity < 7000 mPa s @ -25°C
Explosive properties	-
Oxidising properties	-
<u>9.2. Other information</u>	
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 None known.

10.5. Incompatible materials

Materials to avoid Oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products Carbon monoxide (CO). Carbon dioxide (CO₂). Hydrocarbons.

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 Based on available data the classification criteria are not met.

Respiratory sensitisation

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

Skin sensitisation

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Skin sensitisation	The product contains a small amount of sensitising substance. Based on available data the classification criteria are not met.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vivo	Based on available data the classification criteria are not met.
<u>Carcinogenicity</u>	
Carcinogenicity	Based on available data the classification criteria are not met.
<u>Reproductive toxicity</u>	
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.
<u>Specific target organ toxicity - single exposure</u>	
STOT - single exposure	Based on available data the classification criteria are not met.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	Based on available data the classification criteria are not met.
<u>Aspiration hazard</u>	
Aspiration hazard	Based on available data the classification criteria are not met.

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

Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ 3100 mg/kg, Oral, Rat

Acute toxicity - dermal

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

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LC₅₀ (4h) > 2,3 mg/l, Inhalation, Rat

Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ > 16000 mg/kg, Oral, Rat

Acute toxicity - dermal

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

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LC₅₀ > 1,9 mg/l, Inhalation, (4h), Rat

SECTION 12: Ecological Information

12.1. Toxicity

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Toxicity Harmful to aquatic life with long lasting effects.

Distillates (petroleum), hydrotreated heavy paraffinic

Acute toxicity - fish	LL ₅₀ , : > 100 mg/l,
Acute toxicity - aquatic invertebrates	EL ₅₀ , : > 10000 mg/l,
Acute toxicity - aquatic plants	EL ₅₀ , : > 100 mg/l,
Chronic toxicity - fish early life stage	NOEC, : 10 mg/l,
Chronic toxicity - aquatic invertebrates	NOEC, : 10 mg/l,

Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts

Acute toxicity - fish	LL ₅₀ , 96 hours: 4,5 mg/l, Onchorhynchus mykiss (Rainbow trout) WAF (OECD TG 203)
Acute toxicity - aquatic invertebrates	EL ₅₀ , 48 hours: 23 mg/l, Daphnia magna WAF (OECD TG 202)
Acute toxicity - aquatic plants	EL ₅₀ , 72 hours: 24 mg/l, Desmodesmus subspicatus WAF (OECD TG 201)
Chronic toxicity - aquatic invertebrates	NOEC, 28 days: 0,4 mg/l, Daphnia magna WAF (OECD TG 211)

Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts

Acute toxicity - fish	LL ₅₀ , 96 hours: > 10000 mg/l, Cyprinodon variegatus (Sheepshead minnow) WAF (OECD TG 203)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: > 1000 mg/l, Daphnia magna WAF (OECD TG 202)
Acute toxicity - aquatic plants	NOEC, 96 hours: > 1000 mg/l, Pseudokirchneriella subcapitata WAF

Phenol, dodecyl-, branched

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C₅₀ ≤ 1

M factor (Acute) 1

Chronic aquatic toxicity

M factor (Chronic) 1

12.2. Persistence and degradability

Persistence and degradability No data available.

Biodegradation No data available.

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Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts

Biodegradation 1,5 %, 28 d (OECD TG 301 B)

Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts

Biodegradation 8 %, 28d

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient -

Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts

Partition coefficient log Pow: 0,56

Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts

Partition coefficient log Pow: 10,9

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 Risk of soil and ground water contamination.

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

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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.

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

Abbreviations and acronyms used in the safety data sheet WAF = Water Accommodated Fraction

Key literature references and sources for data The manufacturer's SDS. 8.3.2017

Revision comments Revised formulation. Revised classification. Updated, sections: 2, 3, 11, 12

Revision date 07/04/2017

Supersedes date 03/10/2016

SDS number 4690

Hazard statements in full H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H361f Suspected of damaging fertility.
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 Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts. May produce an allergic reaction.