



SAFETY DATA SHEET

NESTE 1 5W-50

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

1.1. Product identifier

Product name NESTE 1 5W-50
Product number ID 10700
Internal identification 0150

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/HUS, P.O.B 340 (Tukholmankatu 17) 00029 HUS (Helsinki, Finland)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards Not Classified
Health hazards Not Classified
Environmental hazards Not Classified

2.2. Label elements

Hazard statements NC Not Classified
Supplemental label information EUH210 Safety data sheet available on request.

2.3. Other hazards

Other hazards Risk of soil and ground water contamination.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

NESTE 1 5W-50

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	25 - < 40 %
CAS number: 72623-87-1	EC number: 276-738-4
	REACH registration number: 01-2119474889-13-XXXX
Classification	
Asp. Tox. 1 - H304	
Distillates (petroleum), hydrotreated heavy paraffinic	15 - < 25%
CAS number: 64742-54-7	EC number: 265-157-1
	REACH registration number: 01-2119484627-25-XXXX
Classification	
Asp. Tox. 1 - H304	
Dec-1-ene, homopolymer, hydrogenated	5 - < 10 %
CAS number: 68037-01-4	EC number: 500-183-1
	REACH registration number: 01-2119486452-34-XXXX
Classification	
Asp. Tox. 1 - H304	
bis(nonylphenyl)amine	1 - < 2,5%
CAS number: 36878-20-3	EC number: 253-249-4
	REACH registration number: 01-2119488911-28-XXXX
Classification	
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**

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 No specific health hazards known.

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

Notes for the doctor Treat symptomatically.

SECTION 5: Firefighting measures

NESTE 1 5W-50

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 None known.

Hazardous combustion products Carbon dioxide (CO₂). Carbon monoxide (CO). Hydrocarbons. Sulphurous gases (SO_x). Aldehydes. Calcium oxide. Nitrous gases (NO_x).

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

NESTE 1 5W-50

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

DNEL	<p>Workers - Inhalation; Long term local effects: 5,4 mg/m³, (8h), Aerosol Consumer - Inhalation; Long term local effects: 1,2 mg/m³, (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.</p>
-------------	--

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	> 225°C
Flash point	> 200°C
Flammability (solid, gas)	-
Upper/lower flammability or explosive limits	-
Vapour pressure	25 hPa (calculated)
Vapour density	-
Relative density	0,855 @ 15,6°C
Solubility(ies)	Slightly soluble in water.
Partition coefficient	-
Auto-ignition temperature	-
Decomposition Temperature	-
Viscosity	~ 110 mm ² /s @ 40°C ; ~ 18 mm ² /s @ 100°C

NESTE 1 5W-50

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. Acids.

10.6. Hazardous decomposition products

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

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

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.

NESTE 1 5W-50**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 LD₅₀)** LD₅₀ > 5000 mg/kg, Oral, Rat (OECD 401)**Acute toxicity - dermal****Notes (dermal LD₅₀)** LD₅₀ > 2000 mg/kg, Dermal, Rabbit (OECD 402)**Acute toxicity - inhalation****Notes (inhalation LC₅₀)** LC₅₀ > 5,53 mg/l, Inhalation, Rat (OECD 403)**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**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**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.**Ecological information on ingredients.****Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based****Acute toxicity - fish** LL₅₀, 96 hours: > 100 mg/l,
NOEL, 96 hours: ≥ 100 mg/l,
WAF (OECD 203)

NESTE 1 5W-50

Acute toxicity - aquatic invertebrates	EL50, 24 - 48 hours: > 10000 mg/l, NOEL, 48 - 96 hours: ≥ 10000 mg/l, LL ₅₀ , 24 - 96 hours: > 10000 mg/l, WAF (OECD 202)
Acute toxicity - aquatic plants	NOEL, 72 hours: ≥ 100 mg/l, WAF (OECD 201)
Acute toxicity - microorganisms	NOEL, 10 minutes: > 1,93 mg/l, Micro-organisms (wastewater sludge) (DIN 38412, DIN38409)
Chronic toxicity - fish early life stage	NOELR, 14 days: >= 1000 mg/l, Onchorhynchus mykiss (Rainbow trout)
Chronic toxicity - aquatic invertebrates	NOEL, 21 days: 10 mg/l, Daphnia magna WAF (OECD 211)

Distillates (petroleum), hydrotreated heavy paraffinic

Acute toxicity - fish	LL ₅₀ , : > 100 mg/l,
Acute toxicity - aquatic invertebrates	EL50, : > 10000 mg/l,
Acute toxicity - aquatic plants	EL50, : > 100 mg/l,
Chronic toxicity - fish early life stage	NOEC, : 10 mg/l,
Chronic toxicity - aquatic invertebrates	NOEC, : 10 mg/l,

Dec-1-ene, homopolymer, hydrogenated

Acute toxicity - fish	LL ₅₀ , 96 hours: > 1000 mg/l, Onchorhynchus 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 RG 201
Chronic toxicity - aquatic invertebrates	NOELR, 21 days: 125 mg/l, Daphnia magna WAF, OECD TG 211

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**

Biodegradation	2 - 4 %, 28 d (OECD TG 301 B)
-----------------------	----------------------------------

NESTE 1 5W-50**Dec-1-ene, homopolymer, hydrogenated**

Biodegradation Inherently biodegradable.

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

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

-

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

NESTE 1 5W-50

Not applicable.

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

Abbreviations and acronyms used in the safety data sheet DNEL = Derived No-Effect Level
NOEL = No Observed Effect Level
WAF = Water Accommodated Fraction

Key literature references and sources for data The manufacturer's SDS. 16.2.2016

Revision comments Revised formulation. Updated, sections: 3, 8, 9, 10, 11, 12, 16

Revision date 04/03/2016

Supersedes date 28/08/2015

SDS number 4719

Hazard statements in full H304 May be fatal if swallowed and enters airways.
H413 May cause long lasting harmful effects to aquatic life.