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

1.1. Product identifier

Product name  NESTE CITY STANDARD 5W-30
Product number  ID 13544
Internal identification  0445

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  +358-9-471 977, +358-9-4711, Poison Information Centre/HUS, P.O.B 340 (Tukholmankatu number 17) 00029 HUS (Helsinki, Finland)

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  Not Classified

2.2. Label elements

Hazard statements  EUH208 Contains C14-16-18 Alkyl phenol. May produce an allergic reaction.

2.3. Other hazards

Other hazards  Risk of soil and ground water contamination.

SECTION 3: Composition/information on ingredients

3.2. Mixtures
NESTE CITY STANDARD 5W-30

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

<table>
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<tr>
<th>CAS number: 72623-87-1</th>
<th>EC number: 276-738-4</th>
<th>REACH registration number: 01-2119474889-13-XXXX</th>
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<tbody>
<tr>
<td><strong>Classification</strong></td>
<td>Asp. Tox. 1 - H304</td>
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bis(nonylphenyl)amine

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zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)

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<tr>
<td><strong>Classification</strong></td>
<td>Skin Irrit. 2 - H315</td>
<td></td>
</tr>
<tr>
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<td>Eye Dam. 1 - H318</td>
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</tr>
<tr>
<td></td>
<td>Aquatic Chronic 2 - H411</td>
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</table>

C14-16-18 Alkyl phenol

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<tbody>
<tr>
<td><strong>Classification</strong></td>
<td>Skin Sens. 1B - H317</td>
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<tr>
<td></td>
<td>STOT RE 2 - H373</td>
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</tr>
</tbody>
</table>

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

The product contains a small amount of sensitising substance. May cause an allergic skin reaction.
NESTE CITY STANDARD 5W-30

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

None known.

Hazardous combustion products


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

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

DNEL

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.

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
209°C

Flammability (solid, gas)
-

Upper/lower flammability or explosive limits
-

Vapour pressure
25 hPa (calculated)

Vapour density
-

Relative density
~ 0.852 @ 15°C

Solubility(ies)
Insoluble in water.

Partition coefficient
-

Auto-ignition temperature
-
NESTE CITY STANDARD 5W-30

Decomposition Temperature  -
Viscosity  ~ 54 mm²/s @ 40°C ; ~ 9.8 mm²/s @ 100°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  Strong alkalis. Oxidising agents.

10.6. Hazardous decomposition products

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  Based on available data the classification criteria are not met.
Serious eye damage/irritation  Based on available data the classification criteria are not met.
Respiratory sensitisation  Based on available data the classification criteria are not met.
Skin sensitisation  The product contains a small amount of sensitising substance. Based on available data the classification criteria are not met. Supplier's information. Bridging principle (Dilution).
Germ cell mutagenicity  Based on available data the classification criteria are not met.
Genotoxicity - in vivo  Based on available data the classification criteria are not met.
Carcinogenicity  Based on available data the classification criteria are not met.
Reproductive toxicity  Based on available data the classification criteria are not met.
NESTE CITY STANDARD 5W-30

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.

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)

bis(nonylphenyl)amine

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

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

zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)

Acute toxicity - oral
Notes (oral LD₅₀)
LD₅₀ 2600 mg/kg, Oral, Rat

Acute toxicity - dermal
Notes (dermal LD₅₀)
LD₅₀ > 3160 mg/kg, Dermal, Rabbit (OECD TG 402)

C14-16-18 Alkyl phenol

Acute toxicity - oral
Notes (oral LD₅₀)
LD₅₀ > 2000 mg/kg, Oral, Rat

Acute toxicity - dermal
Notes (dermal LD₅₀)
LD₅₀ > 2000 mg/kg, Dermal, 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.

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based
NESTE CITY STANDARD 5W-30

Acute toxicity - fish  
LL₅₀, 96 hours: > 100 mg/l,  
NOEL, 96 hours: ≥ 100 mg/l,  
WAF (OECD 203)

Acute toxicity - aquatic invertebrates  
EL₅₀, 48 hours: > 10000 mg/l, Daphnia magna  
NOEL, 48 - 96 hours: ≥ 10000 mg/l,  
LL₅₀, 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 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)

**bis(nonylphenyl)amine**

Acute toxicity - fish  
LC₅₀, 96 hours: > 100 mg/l, Brachydanio rerio (Zebra Fish)

Acute toxicity - aquatic invertebrates  
EC₅₀, 48 hours: > 100 mg/l, Daphnia magna  
WAF

Acute toxicity - aquatic plants  
EC₅₀, 72 hours: 600 mg/l, Pseudokirchneriella subcapitata

**zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)**

Acute toxicity - fish  
LL₅₀, 96 hours: 4,5 mg/l, Onchorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates  
EC₅₀, 48 hours: 5,4 mg/l, Daphnia magna

Acute toxicity - aquatic plants  
EC₅₀, 72 hours: 2,1 mg/l, Selenastrum capricornutum

**C14-16-18 Alkyl phenol**

Acute toxicity - fish  
LC₅₀, 96 hours: > 100 mg/l, Cyprinus carpio (Common carp)  
WAF

Acute toxicity - aquatic invertebrates  
EC₅₀, 48 hours: > 100 mg/l, Daphnia magna  
(OECD TG 202)

Acute toxicity - aquatic plants  
EC₅₀, 72 hours: > 100 mg/l, Pseudokirchneriella subcapitata  
WAF

12.2. Persistence and degradability

Persistence and degradability  
No data available.

Biodegradation  
No data available.

**bis(nonylphenyl)amine**
NESTE CITY STANDARD 5W-30

**Biodegradation**

0 %, 28 d  
(OECD TG 301 B)

*zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)*

**Biodegradation**

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

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available on bioaccumulation.

**Partition coefficient**

-  

*bis(nonylphenyl)amine*

**Partition coefficient**

log Pow: > 7,5

*zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)*

**Partition coefficient**

log Pow 0,59 - 1,2 @ 23°C

**C14-16-18 Alkyl phenol**

**Partition coefficient**

log Pow: > 7,2

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)

-
NESTE CITY STANDARD 5W-30

ADP/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

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. 11.1.2017

Revision comments Updated, sections: 2, 3, 11, 12, 15
Revision date 23/01/2017
Supersedes date 27/07/2016
SDS number 4780

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.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.
H413 May cause long lasting harmful effects to aquatic life.
EUH208 Contains C14-16-18 Alkyl phenol. May produce an allergic reaction.