



SAFETY DATA SHEET NESTE AVORA SPRAY

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

1.1. Product identifier

Product name	NESTE AVORA SPRAY
Product number	ID 18861
Internal identification	7111
Synonyms; trade names	Previous product name: Neste Avora-Aerosoli, product number 7859, ID 10815.

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

Identified uses	Lubricating grease. Aerosol.
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1.3. Details of the supplier of the safety data sheet

Supplier

Neste Markkinointi Oy
Keilaranta 21, Espoo, PL 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 number

SECTION 2: Hazards identification

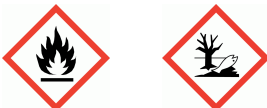
2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards	Aerosol 1 - H222, H229
Health hazards	Not Classified
Environmental hazards	Aquatic Chronic 2 - H411

2.2. Label elements

Pictogram



Signal word

Danger

Hazard statements

H222 Extremely flammable aerosol.
H229 Pressurised container: may burst if heated
H411 Toxic to aquatic life with long lasting effects.

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Precautionary statements	<p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P251 Do not pierce or burn, even after use.</p> <p>P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p> <p>P102 Keep out of reach of children.</p> <p>P280 Wear protective clothing, gloves, eye and face protection.</p>
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2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Naphtha (petroleum), hydrotreated light	25 - < 50 %
CAS number: 64742-49-0	EC number: 265-151-9
REACH registration number: 01-2119475133-43-XXXX	
Classification	
Flam. Liq. 2 - H225	
Asp. Tox. 1 - H304	
Aquatic Chronic 2 - H411	
Butane	25 - < 50 %
CAS number: 106-97-8	EC number: 203-448-7
REACH registration number: 01-2119474691-32-XXXX	
Classification	
Flam. Gas 1 - H220	
Press. Gas, Liquefied - H280	
Propane	10 - < 25 %
CAS number: 74-98-6	EC number: 200-827-9
REACH registration number: 01-2119486944-21-XXXX	
Classification	
Flam. Gas 1 - H220	
Press. Gas, Liquefied - H280	
Naphthenic acids, zinc salts	1 - < 2,5%
CAS number: 12001-85-3	EC number: 234-409-2
M factor (Acute) = 1	M factor (Chronic) = 1
Classification	
Skin Irrit. 2 - H315	
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

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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. 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 if symptoms are severe or persist.
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

5.1. Extinguishing media

Suitable extinguishing media Extinguish with foam, carbon dioxide or dry powder.

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 Heating may cause an explosion.

Hazardous combustion products No known hazardous decomposition 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. Eliminate all ignition sources if safe to do so. Take precautionary measures against static discharges.

6.2. Environmental precautions

Environmental precautions Avoid releasing into the environment. 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 Collect spillage. Contain and absorb spillage with sand, earth or other non-combustible material. 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.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Take precautionary measures against static discharge. 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. 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. Avoid exposing aerosol containers to high temperatures or direct sunlight. Store at temperatures between 5°C and 30°C.

7.3. Specific end use(s)

Specific end use(s) Not known.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

Butane

Butane: 800 ppm (8 h), 1900 mg/m³ (8 h), 1000 ppm (15 min), 2400 mg/m³ (15 min), HTP 2016/FIN.

Propane

Propane: 800 ppm (8 h), 1500 mg/m³ (8 h), 1100 ppm (15 min), 2000 mg/m³ (15 min), HTP 2016/FIN.

NIOSH REL: TWA 1000 ppm (1800 mg/m³)

OSHA PEL: TWA 1000 ppm (1800 mg/m³)

8.2. Exposure controls

Appropriate engineering controls All handling should only take place in well-ventilated areas.

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. The selected gloves should have a breakthrough time of at least 8 hours. Change protective gloves regularly.

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

Respiratory protection Filter device/half mask Particulate filter, type P2. Particulate filter, type P3. Filter device could be used maximum 2 hours at a time. Filter devices must not be used in conditions where the oxygen level is low (< 19 vol.-%). Filter must be changed often enough. Respirators according to standards EN 140 and EN 141.

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 Grease. Aerosol.

Colour Dark brown.

Odour Characteristic.

Odour threshold -

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pH	-
Melting point	-
Initial boiling point and range	- 42°C (propellant)
Flash point	- 104°C (propellant)
Flammability (solid, gas)	-
Upper/lower flammability or explosive limits	Lower flammable/explosive limit: ~ 1 %; Upper flammable/explosive limit: ~ 6 %
Vapour pressure	< 300 kPa @ 50°C
Vapour density	-
Relative density	0,720 - 0,745 @ 15/4°C
Solubility(ies)	Insoluble in water.
Partition coefficient	Hydrocarbons: log Kow: > 4 Estimated value.
Auto-ignition temperature	410°C (propellant)
Decomposition Temperature	-
Viscosity	-
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. Flammable/combustible materials.

10.6. Hazardous decomposition products

Hazardous decomposition products Carbon monoxide (CO). Carbon dioxide (CO₂). Organic compounds.

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.

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.

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.

SECTION 12: Ecological Information

12.1. Toxicity

Toxicity Toxic to aquatic life with long lasting effects.

Naphthenic acids, zinc salts

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.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Hydrocarbons: log Kow: > 4 Estimated value.

12.4. Mobility in soil

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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 Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50° C. Do not pierce or burn, even after use. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions. 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

14.1. UN number

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UN No. (ADR/RID) 1950

14.2. UN proper shipping name

Proper shipping name (ADR/RID) UN 1950, AEROSOLS, flammable

14.3. Transport hazard class(es)

ADR/RID class 2.1

14.4. Packing group

ADR/RID packing group -

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant
MARINE POLLUTANT

14.6. Special precautions for user

Tunnel restriction code (D)

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

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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. 7.1.2015

Revision comments

Product name change. Updated, sections: 12

Revision date

01/09/2017

Supersedes date

11/02/2016

SDS number

5610

Hazard statements in full

H220 Extremely flammable gas.
H222 Extremely flammable aerosol.
H225 Highly flammable liquid and vapour.
H229 Pressurised container: may burst if heated
H280 Contains gas under pressure; may explode if heated.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
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.