



SAFETY DATA SHEET NESTE VOLTERA CITRUS READY

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

1.1. Product identifier

Product name	NESTE VOLTERA CITRUS READY
Product number	ID 19280
Internal identification	7642

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

Identified uses	Car chemical. Windscreen cleaner.
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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	+358-9-471 977, +358-9-4711, 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	Flam. Liq. 3 - H226
Health hazards	Not Classified
Environmental hazards	Not Classified

2.2. Label elements

Pictogram



Signal word	Warning
Hazard statements	H226 Flammable liquid and vapour.
Precautionary statements	P102 Keep out of reach of children. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 Keep container tightly closed.

2.3. Other hazards

Other hazards	Volatile., Vapours may form explosive mixtures with air.
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SECTION 3: Composition/information on ingredients

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3.2. Mixtures

ethanediol		< 1,0 %
CAS number: 107-21-1	EC number: 203-473-3	
Classification Acute Tox. 4 - H302		
butanone		< 0,5 %
CAS number: 78-93-3	EC number: 201-159-0	
Classification Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336		
Ethanol		~ 30 %
CAS number: 64-17-5	EC number: 200-578-6	REACH registration number: 01-2119457610-43-XXXX
Classification Flam. Liq. 2 - H225		

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. Never give anything by mouth to an unconscious person. Get medical attention.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation persists after washing.
Eye contact	Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Continue to rinse for at least 15 minutes and get medical attention.

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 alcohol-resistant foam, carbon dioxide, dry powder or water fog.
Unsuitable extinguishing media	None known. Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

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Specific hazards	Flammable liquid and vapour. Containers can burst violently or explode when heated, due to excessive pressure build-up.
Hazardous combustion products	Carbon monoxide (CO). Carbon dioxide (CO ₂).
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. Prevent fire extinguishing water from contaminating surface water or the ground water system.
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	Avoid inhalation of vapours and contact with skin and eyes. Wear adequate protective equipment at all operations. Eliminate all ignition sources if safe to do so. Vapours may be ignited by a spark, a hot surface or an ember. Use only in well-ventilated areas.
For emergency responders	Prevent unauthorized access.

6.2. Environmental precautions

Environmental precautions	Stop leak if safe to do so. Avoid the spillage or runoff entering drains, sewers or watercourses.
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6.3. Methods and material for containment and cleaning up

Methods for cleaning up	Small Spillages: Flush away spillage with plenty of water. Large Spillages: Absorb spillage with non-combustible, absorbent material. Dispose of waste via a licensed waste disposal contractor.
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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	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. Vapours may accumulate on the floor and in low-lying areas. Vapours may form explosive mixtures with air. Do not breathe vapour/spray. All handling should only take place in well-ventilated areas. Avoid contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety data sheet. Do not eat, drink or smoke when using this product.
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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. Store at temperatures between 5°C and 25°C. Keep away from heat, sparks and open flame. Protect from sunlight. Keep away from food, drink and animal feeding stuffs.
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7.3. Specific end use(s)

Specific end use(s)	Not known.
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SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

ethanediol

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Long-term exposure limit (8-hour TWA): 20 ppm 50 mg/m³

Short-term exposure limit (15-minute): 40 ppm 100 mg/m³

iho

HTP 2016/FIN

butanone

2-Butanone: 100 ppm (15min), 300 mg/m³ (15min), HTP 2016/FIN

May be absorbed through the skin.

Ethanol

Ethanol: 1000 ppm (8h), 1900 mg/m³ (8h), 1300 ppm (15 min), 2500 mg/m³ (15 min), HTP 2016/FIN.

Ethanol (CAS: 64-17-5)

DNEL	<p>Workers - Inhalation; Long term systemic effects: 950 mg/m³</p> <p>Workers - Dermal; Long term systemic effects: 343 mg/kg/day</p> <p>Consumer - Inhalation; Long term systemic effects: 114 mg/m³</p> <p>Consumer - Dermal; Long term systemic effects: 206 mg/kg/day</p> <p>Consumer - Oral; Long term systemic effects: 87 mg/kg/day</p>
PNEC	<ul style="list-style-type: none"> - Fresh water; 0,96 mg/l - Marine water; 0,79 mg/l - Intermittent release; 2,75 mg/l - Sediment (Freshwater); 3,6 dw, mg/kg - Sediment (Marinewater); 2,9 - STP; 580 mg/l - Soil; 0,63 mg/kg, dw - Secondary poisoning; 0,38 g/kg food

8.2. Exposure controls

Appropriate engineering controls	All handling should only take place in well-ventilated areas. Eye wash facilities and emergency shower must be available when handling this product.
Eye/face protection	Tight-fitting safety glasses.
Hand protection	Wear protective gloves. It is recommended that gloves are made of the following material: Butyl rubber. Nitrile rubber. The selected gloves should have a breakthrough time of at least 8 hours. Protective gloves according to standards EN 420 and EN 374. Change protective gloves regularly.
Other skin and body protection	Protective clothing when needed.
Respiratory protection	If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: Gas filter, type A2. Filter must be changed often enough.
Environmental exposure controls	Take precautions against leakage by constructing collecting pools and sewerage systems as well as by surfacing the loading and unloading stations.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Yellow.
Odour	Citrus.
Odour threshold	-

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pH	-
Melting point	ethanol -114°C
Initial boiling point and range	ethanol ~ 78°C
Flash point	~ 29°C Estimated value.
Flammability (solid, gas)	-
Upper/lower flammability or explosive limits	ethanol Lower flammable/explosive limit: 3,3 % Upper flammable/explosive limit: 19 %
Vapour pressure	ethanol 5,85 kPa @ 20°C
Vapour density	ethanol 1,6 (Air = 1.0)
Relative density	~ 0,9 @ 15°C
Solubility(ies)	Completely soluble in water.
Auto-ignition temperature	425°C
Decomposition Temperature	-
Viscosity	-
Explosive properties	-
Oxidising properties	-
9.2. Other information	
Other information	Not known.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Avoid heat, flames and other sources of ignition.

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 Volatile liquid. Avoid exposure to high temperatures or direct sunlight.

10.5. Incompatible materials

Materials to avoid Oxidising agents. Strong acids. Alkalis.

10.6. Hazardous decomposition products

Hazardous decomposition products Carbon monoxide (CO). Carbon dioxide (CO₂). Aldehydes. Ketones.

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

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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.

Toxicological information on ingredients.

ethanediol

Acute toxicity - oral

ATE oral (mg/kg) 500.0

Ethanol

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ 10470 mg/kg, Oral, Rat (OECD 401)

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LC₅₀ (4h) 117 mg/l, Inhalation, Rat (OECD 403)

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.

Ethanol

Acute aquatic toxicity

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Acute toxicity - fish	LC ₅₀ , 96 hours: 14,2 mg/l, Pimephales promelas (Fat-head Minnow) (US EPA E03-05)
Acute toxicity - aquatic invertebrates	LC ₅₀ , 48 hours: 5012 mg/l, Ceriodaphnia dubia (ASTM E729-80)
Acute toxicity - aquatic plants	EC ₅₀ , 3 days: 275 mg/l, EC10, 3 days: 11,5 mg/l, Chlorella vulgaris (OECD 201)
<u>Chronic aquatic toxicity</u>	
Short term toxicity - embryo and sac fry stages	NOEC, 120 hours: 250 mg/l, Danio rerio (OECD 212)
Chronic toxicity - aquatic invertebrates	NOEC, 10 days: 2 mg/l, (Environ. Toxicol. Chem., 1984, 3, 425-434)

12.2. Persistence and degradability

Persistence and degradability Evaporates rapidly from surface water to atmosphere, where degrades.

Biodegradation The product is readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential The product is not bioaccumulating.

Ecological information on ingredients.

Ethanol

Partition coefficient log Kow =-0,35 @ 20°C

12.4. Mobility in soil

Mobility Evaporates rapidly from surface water to atmosphere, where degrades. The product is water-soluble and may spread in water systems. Expected to have a low potential for adsorption. Risk of soil and ground water contamination.

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 None known.

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. When handling waste, the safety precautions applying to handling of the product should be considered. 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) 1987

14.2. UN proper shipping name

Proper shipping name (ADR/RID) UN 1987, ALCOHOLS, N.O.S. (Ethanol)

14.3. Transport hazard class(es)

ADR/RID class 3

14.4. Packing group

ADR/RID packing group III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Tunnel restriction code (D/E)

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

Abbreviations and acronyms used in the safety data sheet ATE = Acute Toxicity Estimate
DNEL = Derived No-Effect Level
PNEC = Predicted No-Effect Concentration

Key literature references and sources for data The manufacturer's SDS. Regulations, databases, literature, own research.

Revision comments This is first issue.

Revision date 02/01/2018

SDS number 6062

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Hazard statements in full

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.