



## SAFETY DATA SHEET

### NESTE VOLTERA STRONG 50 %

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

##### 1.1. Product identifier

Product name                      NESTE VOLTERA STRONG 50 %  
 Product number                    ID 19350  
 Internal identification            7657

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

Identified uses                      Car chemical. Windscreen cleaner.

##### 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

##### 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                    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

#### SECTION 3: Composition/information on ingredients

##### 3.2. Mixtures

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<b>ethanol</b>	<b>~ 42,5 %</b>
CAS number: 64-17-5	EC number: 200-578-6
<b>Classification</b> Flam. Liq. 2 - H225	
<b>ethanediol</b>	<b>0,5 - 2,5 %</b>
CAS number: 107-21-1	EC number: 203-473-3
<b>Classification</b> Acute Tox. 4 - H302	
<b>butanone</b>	<b>0,5 - 2,5 %</b>
CAS number: 78-93-3	EC number: 201-159-0
<b>Classification</b> Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336	

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

<b>Inhalation</b>	Remove person to fresh air and keep comfortable for breathing. Get medical attention if symptoms are severe or persist.
<b>Ingestion</b>	Rinse mouth. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.
<b>Skin contact</b>	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation persists after washing.
<b>Eye contact</b>	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

<b>Suitable extinguishing media</b>	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.
<b>Unsuitable extinguishing media</b>	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** Flammable liquid and vapour. Containers can burst violently or explode when heated, due to excessive pressure build-up.

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**Hazardous combustion products** Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

### 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.

### 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.

### 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** 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.

### 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.

### 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

**ethanol**

Ethanol: 1000 ppm (8h), 1900 mg/m<sup>3</sup> (8h), 1300 ppm (15 min), 2500 mg/m<sup>3</sup> (15 min), HTP 2016/FIN.

**ethanediol**

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Long-term exposure limit (8-hour TWA): 20 ppm 50 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): 40 ppm 100 mg/m<sup>3</sup>

iho

HTP 2016/FIN

### butanone

2-Butanone: 100 ppm (15min), 300 mg/m<sup>3</sup> (15min), HTP 2016/FIN

May be absorbed through the skin.

### 8.2. Exposure controls

<b>Appropriate engineering controls</b>	All handling should only take place in well-ventilated areas. Eye wash facilities and emergency shower must be available when handling this product.
<b>Eye/face protection</b>	Tight-fitting safety glasses. If there is a risk of aerosol formation, full face mask should be used.
<b>Hand protection</b>	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.
<b>Other skin and body protection</b>	Protective clothing when needed.
<b>Respiratory protection</b>	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.
<b>Environmental exposure controls</b>	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

<b>Appearance</b>	Liquid.
<b>Colour</b>	Blue.
<b>Odour</b>	Alcoholic.
<b>Odour threshold</b>	-
<b>pH</b>	-
<b>Melting point</b>	ethanol -114°C
<b>Initial boiling point and range</b>	ethanol ~ 78°C
<b>Flash point</b>	24°C Estimated value.
<b>Evaporation factor</b>	~ 3,4 (undiluted)
<b>Flammability (solid, gas)</b>	-
<b>Upper/lower flammability or explosive limits</b>	ethanol Lower flammable/explosive limit: 3,3 % Upper flammable/explosive limit: 19 %
<b>Vapour pressure</b>	ethanol 5,85 kPa @ 20°C
<b>Vapour density</b>	1,59 (undiluted)
<b>Relative density</b>	0,79 (undiluted)
<b>Solubility(ies)</b>	Completely soluble in water.

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**Auto-ignition temperature** 425°C (undiluted)

**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** Does not decompose when used and stored as recommended.

**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** Vapours/aerosol spray may irritate the respiratory system. 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.

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### 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.

#### ethanol

##### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub> 10470 mg/kg, Oral, Rat (OECD 401)

##### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** LC<sub>50</sub> (4h) 117 mg/l, Inhalation, Rat (OECD 403)

#### ethanediol

##### Acute toxicity - oral

**ATE oral (mg/kg)** 500.0

## 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

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 14,2 mg/l, Pimephales promelas (Fat-head Minnow) (US EPA E03-05)

**Acute toxicity - aquatic invertebrates** LC<sub>50</sub>, 48 hours: 5012 mg/l, Ceriodaphnia dubia (ASTM E729-80)

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<b>Acute toxicity - aquatic plants</b>	EC <sub>50</sub> , 3 days: 275 mg/l, Chlorella vulgaris (OECD 201) EC10, 3 days: 11,5 mg/l, Chlorella vulgaris (OECD 201) EC <sub>50</sub> , 7 days: 4432 mg/l, Lemna gibba NOEC, 7 days: 280 mg/l, Lemna gibba (EPA OTS 797.1160; EPA OPPTS 850.4400)
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**Chronic aquatic toxicity**

<b>Chronic toxicity - aquatic invertebrates</b>	NOEC, 10 days: 2 mg/l, (Environ. Toxicol. Chem., 1984, 3, 425-434)
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**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**

<b>Partition coefficient</b>	log Kow = -0,35 @ 20°C
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**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

**NESTE VOLTERA STRONG 50 %****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** Not applicable.

**and the IBC Code**

**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**

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

**Revision comments** This is first issue.

**Revision date** 26/01/2018

**SDS number** 6075

**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.