

Date 4.6.2009

Previous date: 8.6.2006

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### 1.1 Identification of the substance or preparation

#### 1.1.1 Product name

NESTE VOLTERA CITRUS

#### 1.1.2 Product code

764200,

### 1.2 Use of the substance/preparation

#### 1.2.1 Expressed in writing

Car chemical. Windshield cleaning agent.

### 1.3 Company/undertaking identification

#### 1.3.1 Supplier

Neste Markkinointi Oy

#### 1.3.2 Contact information

##### Street address

Keilaranta 21

##### Postcode and post office

Espoo

FINLAND

##### P.O.Box

P.O.B. 95

##### Postcode and post office

FIN-00095 NESTE OIL

FINLAND

##### Telephone

+358- 10 45811

##### Telefax

+358- 10 45 84442

##### Business ID

1626490-8

##### Email

lubetec@nesteoil.com

### 1.4 Emergency telephone

#### 1.4.1 Telephone number, name and address

+358-9-471 977, +358-9-4711, Poison Information Centre/HUS  
 P.O.B 340 (Haartmaninkatu 4) 00029 HUS (Helsinki, Finland)

## 2. HAZARDS IDENTIFICATION

FIRE AND EXPLOSION HAZARD: Highly flammable.

HEALTH HAZARD: Product is not classified hazardous.

ENVIRONMENTAL HAZARD: Product is not classified hazardous.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Hazardous components

#### 3.1.1

CAS number

#### 3.1.2

Chemical name of the substance

#### 3.1.3

Concentration

#### 3.1.4

Warning symbol, R phrases and other information

64-17-5

Ethanol

Approx. 60 %

F; R11

107-21-1

1,2-Ethanediol, ethylene glycol

1 - 5 %

Xn; R22

#### 3.1.7 Other information

Denatured.

## 4. FIRST AID MEASURES

### 4.1 Additional advice

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## 4.2 Inhalation

Move to fresh air in case of accidental inhalation of vapours or decomposition products. If symptoms persist, call a physician.

## 4.3 Skin contact

Remove contaminated clothing. Wash the skin with plenty of water and soap. If skin irritation persists, call a physician.

## 4.4 Eye contact

Rinse immediately with plenty of water for at least 15 minutes. If eye irritation persists, consult a specialist.

## 4.5 Ingestion

If product is swallowed, give water to drink and consult a physician. Never give anything by mouth to an unconscious person.

## 5. FIRE-FIGHTING MEASURES

### 5.1 Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>), dry chemical.

### 5.2 Extinguishing media which must not be used for safety reasons

Water jet

### 5.4 Special protection equipment for firefighters

Self-contained breathing apparatus and full protective clothing.

### 5.5 Specific methods

Cool product tanks near the fire with water spray from a sufficiently safe distance. Explosion risk due to pressure increase if product containers or tanks are subjected to fire. In the event of fire and/or explosion do not breathe fumes.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions

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### 6.2 Environmental precautions

Try to restrict the release and prevent spread of the product into the environment. Collect liquid before it spreads into drains, the ground and waters.

### 6.3 Clean-up methods

Small amounts can be collected using absorbent material. Keep in suitable, closed containers for disposal. Final rinsing with large amount of water. Product waste should be disposed in accordance with item 13.

## 7. HANDLING AND STORAGE

### 7.1 Handling

Provide sufficient ventilation when handling the product. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Avoid contact with the eyes and respiratory organs.

### 7.2 Storage

Keep in a well-ventilated place. Keep tightly closed. Store in cool place.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Exposure limit values

#### 8.1.1 Threshold limits

|         |                |                   |
|---------|----------------|-------------------|
| Ethanol | 1000 ppm (8 h) | 1300 ppm (15 min) |
|---------|----------------|-------------------|

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|                 |                              |                                 |
|-----------------|------------------------------|---------------------------------|
|                 | 1900 mg/m <sup>3</sup> (8 h) | 2500 mg/m <sup>3</sup> (15 min) |
|                 | HTP 2007/FIN                 |                                 |
| Ethylene glycol | 20 ppm (8 h)                 | 40 ppm (15 min)                 |
|                 | 50 mg/m <sup>3</sup> (8 h)   | 100 mg/m <sup>3</sup> (15 min)  |
|                 | skin, HTP 2007/FIN           |                                 |

**8.1.2 Other information on limit values**

The occupational exposure monitoring method: Ethanol: SFS-EN 689, NIOSH Method 1400  
 Ketones: SFS-EN 689, SFS-3861, NIOSH 5523

**8.2 Exposure controls**

**8.2.1 Occupational exposure controls**

Provide efficient ventilation when handling the product. Avoid inhalation of vapour and contact with skin. Wear protective equipment when needed.

**8.2.1.1 Respiratory protection**

Usually not needed. When needed: Filter device: half mask (organic vapour filter, type A2).

**8.2.1.2 Hand protection**

Protective gloves (e.g. of butyl rubber, nitrile rubber). Penetration time >480 min (ASTM F739). Change protective gloves regularly.

**8.2.1.3 Eye protection**

Tightly fitting safety goggles if there is a risk of splashing.

**8.2.1.4 Skin protection**

Protective clothing when needed.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 General information (appearance, odour)**

Liquid, yellow, lemony.

**9.2 Important health, safety and environmental information**

|                |  |                            |
|----------------|--|----------------------------|
| <b>9.2.1</b>   | <b>pH</b>  | -                          |
| <b>9.2.2</b>   | <b>Boiling point/range</b>                           | Approx. 80°C               |
| <b>9.2.3</b>   | <b>Flash point</b>                                   | < 21°C                     |
| <b>9.2.5</b>   | <b>Explosive properties</b>                          |                            |
| <b>9.2.5.1</b> | <b>Lower explosive limit</b>                         | 3,3 vol-% (ethanol)        |
| <b>9.2.5.2</b> | <b>Upper explosive limit</b>                         | 19 vol-% (ethanol)         |
| <b>9.2.7</b>   | <b>Vapour pressure</b>                               | 5,8 kPa (20°C, ethanol)    |
| <b>9.2.8</b>   | <b>Relative density</b>                              | Approx. 0,8 (15°C)         |
| <b>9.2.9</b>   | <b>Solubility</b>                                    |                            |
| <b>9.2.9.1</b> | <b>Water solubility</b>                              | completely miscible        |
| <b>9.2.9.2</b> | <b>Fat solubility (solvent /oil to be specified)</b> | -                          |
| <b>9.2.10</b>  | <b>Partition coefficient (n-octanol/water)</b>       | Log Kow < -0,32 (ethanol). |

**9.3 Other information**

Autoignition temperature : Approx. 363 °C (ethanol)

**10. STABILITY AND REACTIVITY**

**10.1 Conditions to avoid**

Avoid heat, sparks and open flames.

**10.2 Materials to avoid**

Incompatible with strong acids and oxidizing agents.

**10.3 Hazardous decomposition products**

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**11. TOXICOLOGICAL INFORMATION**

**11.1 Acute toxicity**

Ethanol: Very low toxicity when swallowed LD50/oral/rat = 7 060 mg/kg, dermal (LD50 >2000 mg/l, rabbit) , LC50/inhalation/ 4 h/rat > 20 mg/l.

Ethylene glycol: LD50/oral/rat < 5000 mg/kg, dermal (LD50 >2000 mg/l, rabbit) , LC50/inhalation/4h/rat = 34 mg/l.

**11.2 Irritation and corrosion**

Repeated exposure may cause skin dryness or cracking.

**11.3 Sensitisation**

Non-sensitizing.

**11.5 Human experience**

Vapour irritates the eyes and the respiratory tract. Inhalation of high concentrations has narcotic effect and may lead to cough, headache, dizziness and drowsiness. Ingestion of high amounts may produce drowsiness and unconsciousness. Prolonged or repeated contact causes drying and irritation of the skin.

**12. ECOLOGICAL INFORMATION**

**12.1 Ecotoxicity**

**12.1.1 Aquatic toxicity**

Very low toxicity.

Ethanol: LC50/96h/Pimephales promelas = 13 480 mg/l.

Ethylene glycol: LC50/96h/ Salmo Gairdneri > 40 000 mg/l.

**12.2 Mobility**

Miscible in water. Volatile.

**12.3 Persistence and degradability**

**12.3.1 Biodegradation**

Biodegradable (estimate).

Ethanol: Readily biodegradable . BOD5 37 - 86 %

**12.3.2 Chemical degradation**

Ethanol: t<sub>1/2</sub> : 4 - 6 days .

**12.4 Bioaccumulative potential**

Not accumulative. Ethanol: log Pow = - 0,32.

**13. DISPOSAL CONSIDERATIONS**

Product waste should be treated according to national regulations and local authorities' advice.

**14. TRANSPORT INFORMATION**

|               |                             |  |
|---------------|-----------------------------|--|
| <b>14.1</b>   | <b>UN-No</b>                | 1987                                       |
| <b>14.2</b>   | <b>Packaging group</b>      | II   |
| <b>14.3</b>   | <b>Land transport</b>       |  |
| <b>14.3.1</b> | <b>ADR/RID</b>              | 3  |
| <b>14.3.2</b> | <b>Risk No.</b>             | 33   |
| <b>14.3.3</b> | <b>Description of goods</b> | UN 1987, ALCOHOLS, N.O.S. (Ethanol), 3, II |

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|             |                      |  |
|-------------|----------------------|--|
| <b>14.4</b> | <b>Sea transport</b> |  |
| 14.4.1      | IMDG                 | 3  |
| 14.4.2      | Proper shipping name | UN 1987, ALCOHOLS, N.O.S. (Ethanol), 3, II |
| 14.4.2.1    | Packaging group      | II   |
| 14.4.3      | Further information  | EmS: F-E, S-D                              |
| <b>14.5</b> | <b>Air transport</b> |  |
| 14.5.1      | ICAO/IATA            | 3  |
| 14.5.2      | Description of goods | UN 1987, ALCOHOLS, N.O.S. (Ethanol), 3, II |

## 15. REGULATORY INFORMATION

### 15.1 Information on the warning label

#### 15.1.1 Letter code of the warning symbol and indications of danger for the preparation

F Highly flammable

#### 15.1.3 R-phrase(s)

R11 Highly flammable.

#### 15.1.4 S-phrase(s)

S7 Keep container tightly closed.

S16 Keep away from sources of ignition - No smoking.

S46 If swallowed, seek medical advice immediately and show this container or label.

#### 15.1.5 Special regulations on certain preparations

ADDITIONAL LABELLING OF RETAIL PACKAGES: Keep out of reach of children.

## 16. OTHER INFORMATION

### 16.1 List of relevant R phrases

R22 Harmful if swallowed.

R11 Highly flammable.

### 16.4 Further information

Neste Markkinointi Oy/Lubrication, product information, tel. +358 (0)10 45 85410, e-mail: lubetec@nesteoil.com

### 16.5 Literary reference

Regulations, databases, literature, own researches.

### 16.6 Additions, deletions, revisions

REACH form