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 SUMMER

1.1.2 Product code
764600,

1.2 Use of the substance/preparation

1.2.1 Expressed in writing
Car chemical. Windscreen cleaner.

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
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: The product is not classified as dangerous.
HEALTH HAZARD: The product is not classified as dangerous.
ENVIRONMENTAL HAZARD: The product is not classified as dangerous.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Hazardous components

3.1.1 CAS number
141-43-5
112-34-5

3.1.2 Chemical name of the substance
2-Amino ethanol
2-(2-Butoxy ethoxy)ethanol

3.1.3 Concentration
1 %
< 2 %

3.1.4 Warning symbol, R phrases and other information
Xn; R20/21/22; C; R34
Xi; R36

4. FIRST AID MEASURES

4.1 Additional advice

- 

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**  
Do NOT induce vomiting. If product is swallowed, give water to drink and consult a physician.

5. **FIRE-FIGHTING MEASURES**

Not combustible.

5.1 **Suitable extinguishing media**  
alcohol-resistant foam, carbon dioxide (CO2), dry chemical.

5.4 **Special protection equipment for firefighters**  
Self-contained breathing apparatus and full protective clothing.

6. **ACCIDENTAL RELEASE MEASURES**

6.1 **Personal precautions**

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.

7. **HANDLING AND STORAGE**

7.1 **Handling**  
Provide sufficient ventilation when handling the product.

7.2 **Storage**  
Keep in a well-ventilated place. Keep tightly closed.

8. **EXPOSURE CONTROLS/PERSONAL PROTECTION**

8.1 **Exposure limit values**

8.1.1 **Threshold limits**  
- 2-Amino ethanol  
  - 1 ppm (8 h)  
  - 3 ppm (15 min)  
  - 2.5 mg/m³ (8 h)  
  - 7.6 mg/m³ (15 min)  
  iho, HTP2007/FIN

- 2-(2-Butoxy ethoxy)ethanol  
  - 10 ppm (8 h)  
  - 68 mg/m³ (8 h)  
  iho, HTP 2007/FIN

8.1.2 **Other information on limit values**  
The occupational exposure monitoring method: NIOSH Method 2007/3509  
SFS-EN 689, SFS-3861.

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: Respirator (organic vapour filter, type A2).

8.2.1.2 Hand protection
Protective gloves (e.g. of nitrile rubber). penetration time >480 min (ASTM F739). Change protective gloves regularly.

8.2.1.3 Eye protection
Face-shield or at least 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, blue colour. A mild characteristic odour.

9.2 Important health, safety and environmental information

9.2.1 pH
- 

9.2.2 Boiling point/range
Approx. 100°C

9.2.3 Flash point
> 90 °C

9.2.5 Explosive properties
9.2.5.1 Lower explosive limit
- 

9.2.5.2 Upper explosive limit
- 

9.2.7 Vapour pressure
- 

9.2.8 Relative density
Approx. 1.0

9.2.9 Solubility
9.2.9.1 Water solubility
completely miscible

9.2.9.2 Fat solubility (solvent /oil to be specified)
- 

10. STABILITY AND REACTIVITY

10.1 Conditions to avoid
- 

10.2 Materials to avoid
- 

11. TOXICOLOGICAL INFORMATION

11.1 Acute toxicity
CAS 141-43-5: Harmful; LD50/oral/rat = 1515 mg/kg. LD50/skin/rabbit = 1025 mg/kg.

11.2 Irritation and corrosion
No skin irritation.

11.3 Sensitisation
Non-sensitizing.

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity

12.1.1 Aquatic toxicity
Very low toxicity
CAS 112–34-5: (LC50/96h/ Lepomis macrochirus = 1300 mg/l), LC50/48h/ Gold fish = 1800 - 2304 mg/l, EC50/24 h / Daphnia = 3200 mg/l. ICLo / 8 h / algae = 1000 mg/l, (Scenedesmus quadric). CAS 141-43-5: LC50/96h/Carassius auratus = 170 mg/l, APHA 1971 EC20/0.5h/activated sludge > 1000 mg/l, DIN/EN/ISO 8192-OECD 209-88/302/EEC EC50/17h/Pseudomonas putida = 110 mg/l, DIN 38412 part 8.

12.2 Mobility
Water soluble.

12.3 Persistence and degradability
12.3.1 Biodegradation
According to the results of tests of biodegradability this product is considered as being readily biodegradable. CAS 112-34-5: Biological degradation > 90 % (OECD 302B). CAS 141-43-5: Biological degradation = 90 - 100 % 28 d. (OECD 301 F, ISO 9408; 92/69/KTY, C.4-D).

12.4 Bioaccumulative potential
Not accumulative.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

14.1 UN-No
- 
14.3 Land transport
14.3.4 Further information
Not dangerous goods in the meaning of ADR/RID, ADNR, IMDG-Code, ICAO/IATA-DGR

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
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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
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R34 Causes burns.
R36 Irritating to eyes.

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
1, 2, 3, 8, 16