

# SAFETY DATA SHEET NESTE SUPERJÄÄHDYTINNESTE XLC 50 %

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

1.1. Product identifier

Product name NESTE SUPERJÄÄHDYTINNESTE XLC 50 %

Product number ID 13979

Internal identification 7736

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

**Identified uses** Antifreeze liquid.

#### 1.3. Details of the supplier of the safety data sheet

Supplier

Neste Markkinointi Oy

Keilaranta 21, Espoo, P.O.B. 95, 00095 NESTE OIL, FINLAND

Tel. +358 10 45811 Fax +358 10 45 84442 lubetec@neste.com

## 1.4. Emergency telephone number

National emergency telephone +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 Not Classified

Health hazards Acute Tox. 4 - H302 STOT RE 2 - H373

Environmental hazards Not Classified

## 2.2. Label elements

#### **Pictogram**





Signal word Warning

Hazard statements H302 Harmful if swallowed.

H373 May cause damage to organs through prolonged or repeated exposure.

**Precautionary statements** P260 Do not breathe vapour/ spray.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P102 Keep out of reach of children.

Contains Ethane-1,2-diol

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#### 2.3. Other hazards

## SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

Ethane-1,2-diol 40 - 49 %

CAS number: 107-21-1 EC number: 203-473-3 REACH registration number: 01-

2119456816-28-XXXX

Classification

Acute Tox. 4 - H302 STOT RE 2 - H373

Sodium 2-ethylhexanoate 1,5 - < 2,5 %

CAS number: 19766-89-3 EC number: 243-283-8 REACH registration number: 01-

2119979083-31-XXXX

Classification

Repr. 2 - H361

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. Get medical attention immediately.

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. Get medical attention if irritation persists after washing.

#### 4.2. Most important symptoms and effects, both acute and delayed

**General information** Harmful if swallowed. May cause nausea, headache, dizziness and intoxication.

## 4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor Development of symptoms may be delayed for 24 to 48 hours. Keep affected person under

observation.

#### SECTION 5: Firefighting measures

## 5.1. Extinguishing media

Suitable extinguishing media Water spray, foam, dry powder or carbon dioxide.

Unsuitable extinguishing

Do not use water jet as an extinguisher, as this will spread the fire.

media

## 5.2. Special hazards arising from the substance or mixture

Specific hazards None known.

Hazardous combustion

products

Carbon dioxide (CO2). Carbon monoxide (CO). Hydrocarbons. Aldehydes. Ketones.

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#### 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.

#### 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 Absorb spillage with non-combustible, absorbent material. Inform the relevant authorities if

environmental pollution occurs (sewers, waterways, soil or air). 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** Avoid inhalation of vapours/spray and contact with skin and eyes. All handling should only

take place in well-ventilated areas. Take precautionary measures against static discharge. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. 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 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

#### Ethane-1,2-diol

1,2-ethanediol: 20 ppm (8h), 50 mg/m3 (8h), 40 ppm (15 min), 100 mg/m3 (15 min), HTP 2016/FIN.

1,2-ethanediol: 20 ppm (8h TWA), 52 mg/m3 (8h TWA), 40 ppm (15min STEL), 104 mg/m3 (15min STEL) EU OELV

(EC/2000/39).

Skin

#### 8.2. Exposure controls

Appropriate engineering

controls

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

Eye/face protection

Safety goggles if there is a risk of splashing.

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**Hand protection** Wear protective gloves. It is recommended that gloves are made of the following material:

Neoprene. Polyvinyl chloride (PVC). Nitrile rubber.

Other skin and body

protection

Protective clothing when needed.

Respiratory protection Breathing apparatus needed only when aerosol or mist is formed. Wear a respirator fitted with

the following cartridge: Gas filter, type A2.

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 Liquid.

Colour Reddish.

Odour Mild.

Odour threshold -

**pH** pH (concentrated solution): 8,5

Melting point -

Initial boiling point and range > 180 °C Estimated value.

Flash point > 100°C Estimated value.

Flammability (solid, gas) -

Upper/lower flammability or

explosive limits

1,2-ethanediol: Lower flammable/explosive limit: 3,2 Upper flammable/explosive limit: 15,3

Vapour pressure -

Vapour density -

Relative density ~ 1,1 @ 15°C

Solubility(ies) Completely soluble in water.

Partition coefficient 1,2-ethanediol: log Pow: 1,4

Auto-ignition temperature -

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

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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 There are no known conditions that are likely to result in a hazardous situation.

10.5. Incompatible materials

Materials to avoid Oxidising agents. Strong acids.

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** Harmful if swallowed.

Acute toxicity - oral

**ATE oral (mg/kg)** 1,020.41

Skin corrosion/irritation

Skin corrosion/irritation May cause skin irritation., Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation May cause eye and respiratory system 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.

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 May cause damage to organs through prolonged or repeated exposure.

Target organs Kidneys

Aspiration hazard

**Aspiration hazard** Based on available data the classification criteria are not met.

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#### Ethane-1,2-diol

Acute toxicity - oral

Notes (oral LD<sub>50</sub>) LD<sub>50</sub> 4700 mg/kg, Oral, Rat

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

Notes (dermal LD₅o) LD₅o 9530 mg/kg, Dermal, Rabbit

#### **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.

Ethane-1,2-diol

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 41000-57000 mg/l,

Acute toxicity - aquatic

invertebrates

LC<sub>50</sub>, 48 hours: 46300-57600 mg/l,

Acute toxicity - aquatic

plants

EC<sub>50</sub>, 96 hours: 6500-13000 mg/l,

## 12.2. Persistence and degradability

Persistence and degradability Degradable by atmospheric chemistry.

**Biodegradation** The product is expected to be biodegradable.

## 12.3. Bioaccumulative potential

Bioaccumulative potential The product is not bioaccumulating.

Partition coefficient 1,2-ethanediol: log Pow: 1,4

12.4. Mobility in soil

**Mobility** The product is water-soluble and may spread in water systems.

## 12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

assessment

This product does not contain any substances classified as PBT or vPvB.

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. 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

General The product is not covered by international regulations on the transport of dangerous goods

(IMDG, IATA, ADR/RID).

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#### 14.1. UN number

-

UN No. (ADR/RID)

## 14.2. UN proper shipping name

Proper shipping name

(ADR/RID)

#### 14.3. Transport hazard class(es)

ADR/RID class

## 14.4. Packing group

ADR/RID packing group

#### 14.5. Environmental hazards

#### Environmentally hazardous substance/marine pollutant

No.

## 14.6. Special precautions for user

Not applicable.

#### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

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**

Abbreviations and acronyms ATE = Acute Toxicity Estimate

used in the safety data sheet TWA = Time-Weighted Average

Key literature references and

sources for data

The manufacturer's SDS.

**Revision comments** Updated, sections: 2, 3, 8, 11, 16

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SDS number 4921

## NESTE SUPERJÄÄHDYTINNESTE XLC 50 %

## Hazard statements in full

H302 Harmful if swallowed.

H361 Suspected of damaging fertility or the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.