



## SAFETY DATA SHEET NESTE VOLTERA STRONG

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

#### 1.1. Product identifier

Product name	NESTE VOLTERA STRONG
Product number	ID 13167
Internal identification	7640

#### 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. 2 - H225
Health hazards	Eye Irrit. 2 - H319
Environmental hazards	Not Classified

#### 2.2. Label elements

##### Hazard pictograms



Signal word	Danger
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Hazard statements	H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation.
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Precautionary statements	P102 Keep out of reach of children. P337+P313 If eye irritation persists: Get medical advice/ attention. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P264 Wash contaminated skin thoroughly after handling. P280 Wear eye and face protection.
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#### 2.3. Other hazards

## NESTE VOLTERA STRONG

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

<b>Ethanol</b> <span style="float: right;"><b>80 - &lt; 90 %</b></span>		
CAS number: 64-17-5	EC number: 200-578-6	REACH registration number: 01-2119457610-43-XXXX
<b>Classification</b> Flam. Liq. 2 - H225 Eye Irrit. 2 - H319		
<b>butanone</b> <span style="float: right;"><b>1 - &lt; 5 %</b></span>		
CAS number: 78-93-3	EC number: 201-159-0	REACH registration number: 01-2119457290-43-XXXX
<b>Classification</b> Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336		
<b>1-methoxy-2-propanol</b> <span style="float: right;"><b>&lt; 0,5 %</b></span>		
CAS number: 107-98-2	EC number: 203-539-1	REACH registration number: 01-2119457435-35-XXXX
<b>Classification</b> Flam. Liq. 3 - H226 STOT SE 3 - H336		
<b>(2-methoxymethylethoxy)propanol</b> <span style="float: right;"><b>&lt; 0,5 %</b></span>		
CAS number: 34590-94-8	EC number: 252-104-2	REACH registration number: 01-2119450011-60-XXXX
<b>Classification</b> Not Classified		
<b>N,N-dimethyldecylamine N-oxide</b> <span style="float: right;"><b>&lt; 0,5 %</b></span>		
CAS number: 2605-79-0	EC number: 220-020-5	REACH registration number: 01-2119959297-22-XXXX
M factor (Acute) = 1		
<b>Classification</b> Acute Tox. 4 - H302 Eye Dam. 1 - H318 Aquatic Acute 1 - H400 Aquatic Chronic 2 - H411		

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

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<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** Causes serious eye irritation. Vapours/aerosol spray may irritate the respiratory system.

### 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** 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** Highly 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<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** Eliminate all ignition sources if safe to do so. Wear adequate protective equipment at all operations. Wear self-contained breathing apparatus. Avoid inhalation of vapours and contact with skin and eyes. Vapours may be ignited by a spark, a hot surface or an ember. Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back. 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. Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).

### 6.3. Methods and material for containment and cleaning up

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**Methods for cleaning up** Small Spillages: Absorb spillage with non-combustible, absorbent material. Large Spillages: Large spills should be collected mechanically (remove by pumping) for disposal. Dispose of waste via a licensed waste disposal contractor. Use only in well-ventilated areas.

### 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. Use explosion-proof electrical equipment. 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. Keep away from oxidising materials, heat and flames.

### 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 2018/FIN.

##### butanone

2-Butanone: 100 ppm (15min), 300 mg/m<sup>3</sup> (15min), HTP 2018/FIN

May be absorbed through the skin.

##### 1-methoxy-2-propanol

1-methoxypropan-2-ol: 100 ppm (8h), 375 mg/m<sup>3</sup> (8h), 150 ppm (15min), 568 mg/m<sup>3</sup> (15min) HTP 2018/FIN, EU OELV (EC/2000/39).

##### (2-methoxymethylethoxy)propanol

(2-methoxymethylethoxy)propanol: 50 ppm (8h), 310 mg/m<sup>3</sup> (8h), HTP 2018/FIN, EU OELV (EC/2000/39)

May be absorbed through the skin.

#### Ethanol (CAS: 64-17-5)

#### DNEL

Workers - Inhalation; Long term systemic effects: 950 mg/m<sup>3</sup>  
 Workers - Inhalation; Short term local effects: 1900 mg/m<sup>3</sup>  
 Workers - Dermal; Long term systemic effects: 343 mg/kg/day  
 Consumer - Inhalation; Short term local effects: 950 mg/m<sup>3</sup>  
 Consumer - Dermal; Long term systemic effects: 206 mg/kg/day  
 Consumer - Inhalation; Long term systemic effects: 114 mg/m<sup>3</sup>  
 Consumer - Oral; Long term systemic effects: 87 mg/kg/day

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- PNEC**
- 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

### butanone (CAS: 78-93-3)

- DNEL**
- Workers - Dermal; Long term : 1161 mg/kg/day
  - Workers - Inhalation; Long term : 600 mg/m<sup>3</sup>
  - Workers - Dermal; Long term : 412 mg/kg/day
  - Consumer - Inhalation; Long term : 106 mg/m<sup>3</sup>
  - Consumer - Oral; Long term : 31 mg/kg

- PNEC**
- Fresh water; 55,8 mg/l
  - marine water; 55,8 mg/l
  - Sediment (Freshwater); 284,74 mg/kg
  - Sediment (Marinewater); 287,7 mg/kg
  - Soil; 22,5 mg/kg, ww

### (2-methoxymethylethoxy)propanol (CAS: 34590-94-8)

- DNEL**
- Workers - Inhalation; Long term systemic effects: 308 mg/m<sup>3</sup>
  - Workers - Dermal; Long term systemic effects: 283 mg/kg bw/day
  - General population - Inhalation; Long term systemic effects: 37,2 mg/m<sup>3</sup>
  - General population - Dermal; Long term systemic effects: 121 mg/kg bw/day
  - General population - Oral; Long term systemic effects: 36 mg/kg bw/day

- PNEC**
- Fresh water; 19 mg/l
  - Intermittent release, Fresh water; 190 mg/l
  - marine water; 1,9 mg/l
  - STP; 4168 mg/l
  - Sediment (Freshwater); 70,2 mg/kg, dw
  - Sediment (Marinewater); 7,02 mg/kg, dw
  - Soil; 2,74 mg/kg, dw

### 1-methoxy-2-propanol (CAS: 107-98-2)

- DNEL**
- Workers - Inhalation; Long term systemic effects: 369 mg/m<sup>3</sup>
  - Workers - Inhalation; Short term systemic effects: 553,5 mg/m<sup>3</sup>
  - Workers - Inhalation; Short term local effects: 553,5 mg/m<sup>3</sup>
  - Workers - Dermal; Long term systemic effects: 183 mg/kg bw/day
  - General population - Inhalation; Long term systemic effects: 43,9 mg/m<sup>3</sup>
  - General population - Dermal; Long term systemic effects: 78 mg/kg bw/day
  - General population - Oral; Long term systemic effects: 33 mg/kg bw/day

- PNEC**
- Fresh water; 10 mg/l
  - marine water; 1 mg/l
  - Intermittent release, Fresh water; 100 mg/l
  - STP; 100 mg/l
  - Sediment (Freshwater); 52,3 mg/kg, dw
  - Sediment (Marinewater); 5,2 mg/kg, dw
  - Soil; 4,59 mg/kg, dw

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### N,N-dimethyldodecylamine N-oxide (CAS: 2605-79-0)

<b>DNEL</b>	Workers - Inhalation; Long term systemic effects: 6,2 mg/m <sup>3</sup> Workers - Dermal; Long term systemic effects: 11 mg/kg bw/day General population - Inhalation; Long term systemic effects: 1,53 mg/m <sup>3</sup> General population - Dermal; Long term systemic effects: 5,5 mg/kg bw/day General population - Oral; Long term systemic effects: 0,44 mg/kg bw/day
<b>PNEC</b>	Fresh water; 0,034 mg/l marine water; 0,003 mg/l Intermittent release; 0,034 mg/l STP; 4,59 mg/l Sediment (Freshwater); 5,24 mg/kg, dw Sediment (Marinewater); 0,524 mg/kg, dw Soil; 1,02 mg/kg, dw Oral; 11,1 mg/kg

### 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>	< 21°C Closed cup.
<b>Evaporation factor</b>	-
<b>Flammability (solid, gas)</b>	-

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**Upper/lower flammability or explosive limits** ethanol  
Upper flammable/explosive limit: 19 %  
Lower flammable/explosive limit: 3,3 %

**Vapour pressure** ethanol 5,85 kPa @ 20°C

**Vapour density** -

**Relative density** -

**Solubility(ies)** Completely soluble in water.

**Auto-ignition temperature** ethanol 363-425°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** Reactions with the following materials may generate heat: Oxidising agents. Strong acids. Strong alkalis.

### 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** Causes serious eye irritation.

### Respiratory sensitisation

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<b>Respiratory sensitisation</b>	Vapours/aerosol spray may irritate the respiratory system. Based on available data the classification criteria are not met.
<b><u>Skin sensitisation</u></b>	
<b>Skin sensitisation</b>	Prolonged contact may cause redness, irritation and dry skin. Based on available data the classification criteria are not met.
<b><u>Germ cell mutagenicity</u></b>	
<b>Genotoxicity - in vivo</b>	Based on available data the classification criteria are not met.
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	Based on available data the classification criteria are not met.
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - fertility</b>	Based on available data the classification criteria are not met.
<b>Reproductive toxicity - development</b>	Based on available data the classification criteria are not met.
<b><u>Specific target organ toxicity - single exposure</u></b>	
<b>STOT - single exposure</b>	Based on available data the classification criteria are not met.
<b><u>Specific target organ toxicity - repeated exposure</u></b>	
<b>STOT - repeated exposure</b>	Based on available data the classification criteria are not met.
<b><u>Aspiration hazard</u></b>	
<b>Aspiration hazard</b>	Based on available data the classification criteria are not met.
<b><u>Toxicological information on ingredients.</u></b>	

### Ethanol

#### Acute toxicity - oral

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

#### Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) LD<sub>50</sub> 15800 mg/kg, Dermal, Rabbit

#### Acute toxicity - inhalation

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

### butanone

#### Acute toxicity - oral

Notes (oral LD<sub>50</sub>) LD<sub>50</sub> >2000 mg/kg, Oral, Rat

#### Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) LD<sub>50</sub> >2000 mg/kg, Dermal, Rabbit

### 1-methoxy-2-propanol

#### Acute toxicity - oral

Notes (oral LD<sub>50</sub>) LD<sub>50</sub> 4016 mg/kg bw, Oral, Rat (EU B:1)

#### Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) LD<sub>50</sub> >2000 mg/kg bw, Dermal, Rat (24w) (EU B.3)

#### Acute toxicity - inhalation



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**Notes (inhalation LC<sub>50</sub>)** LC<sub>50</sub> >7000 ppm, (6h) , Vapour Rat (OECD 403)  
LC<sub>50</sub> 27596 mg/l, (6h) , Vapour Rat (OECD 403)

### (2-methoxymethylethoxy)propanol

#### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub> > 5000 mg/kg, Oral, Rat (OECD 401)

#### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub> 9510 mg/kg bw, Dermal, Rabbit (24h) (OECD 402)

#### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** LC<sub>50</sub> > 1,67 mg/l, (7 h) , Vapour Rat (OECD 403)

### N,N-dimethyldecylamine N-oxide

#### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub> 300-2000 mg/kg bw, Oral, Rat, Female (OECD 423)

**ATE oral (mg/kg)** 5,000.0

#### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub>, (24h) > 2000 mg/kg bw, Dermal, Rat (OECD 402)

## 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, Freshwater invertebrates  
Ceriodaphnia dubia  
(ASTM E729-80)  
EC<sub>50</sub>, 48 hours: 857 mg/l, Marinewater invertebrates

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 3 days: 275 mg/l,  
EC10, 3 days: 11,5 mg/l,  
Chlorella vulgaris  
(OECD 201)

#### Chronic aquatic toxicity

**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)

#### butanone

#### Acute aquatic toxicity

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<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 48 hours: <100 mg/l, Leuciscus idus (Golden orfe)
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: >100 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	EC <sub>80</sub> , 7 days: >100 mg/l, Desmodesmus subspicatus

### 1-methoxy-2-propanol

#### Acute aquatic toxicity

<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: 4600-10000 mg/l, Leuciscus idus (Golden orfe) (DIN 38412-15)
<b>Acute toxicity - aquatic invertebrates</b>	LC <sub>50</sub> , 48 hours: 21100-25900 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	ErC50, 7 days: >1000 mg/l, Pseudokirchneriella subcapitata
<b>Acute toxicity - microorganisms</b>	EC <sub>50</sub> , : >1000 mg/l, Pseudomonas fluorescens IC <sub>50</sub> , 3 hours: >1000 mg/l, Activated sludge (OECD 209)

### (2-methoxymethylethoxy)propanol

#### Acute aquatic toxicity

<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: > 1000 mg/l, Fish, Poecilia reticulata (Guppy) (OECD 203)
<b>Acute toxicity - aquatic invertebrates</b>	LC <sub>50</sub> , 48 hours: 1919 mg/l, Daphnia magna (OECD 202)
<b>Acute toxicity - aquatic plants</b>	EC <sub>50</sub> , 96 hours: 969 mg/l, Algae NOEC, 72 hours: 969 mg/l, Pseudokirchneriella subcapitata (OECD 201) ErC50, 72 hours: > 969 mg/l, Pseudokirchneriella subcapitata (OECD 201)
<b>Acute toxicity - microorganisms</b>	EL10, 18 hours: 4168 mg/l, Pseudomonas putida

#### Chronic aquatic toxicity

<b>Chronic toxicity - aquatic invertebrates</b>	NOEC, 22 days: >=0,5 mg/l, Daphnia magna (OECD 211)
<b>Toxicity to terrestrial plants</b>	NOEC, 21 days: 250 g/l, Brassica napus EC <sub>50</sub> , 21 days: >500 mg/l, Brassica napus

### N,N-dimethyldecylamine N-oxide

#### Acute aquatic toxicity

<b>LE(C)<sub>50</sub></b>	0.1 < L(E)C50 ≤ 1
<b>M factor (Acute)</b>	1

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**Acute toxicity - aquatic plants** NOEC, 28 days:  $\geq 67$   $\mu\text{g/l}$ , Algae  
Fresh water  
IC<sub>50</sub>, : 0,16 mg/l, Algae

### 12.2. Persistence and degradability

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

**Biodegradation** The product is readily biodegradable.

### Ecological information on ingredients.

#### Ethanol

**Biodegradation**  $>80\%$ , 4 d  
(OECD TG 301)

#### 1-methoxy-2-propanol

**Biodegradation** 96%, 28 d  
(OECD 301E)

#### (2-methoxymethylethoxy)propanol

**Biodegradation** 76-96 %, 28d (OECD 301F)

#### N,N-dimethyldecylamine N-oxide

**Biodegradation** 97 %, 28 d  
(OECD 301E)

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** The product is not bioaccumulating.

### Ecological information on ingredients.

#### Ethanol

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

#### 1-methoxy-2-propanol

**Partition coefficient** log Kow:  $< 1$  @ 20°C (OECD 117)

#### (2-methoxymethylethoxy)propanol

**Partition coefficient** log Kow: 0,004 @ 25 °C (OECD 107)

#### N,N-dimethyldecylamine N-oxide

**Bioaccumulative potential** BCF: 126,5 l/kg, Fish BCFBAF v3.01 Estimated value.

**Partition coefficient** log Kow: 0,95-2,7 (calculated)

### 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.

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### 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 II

### 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

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### 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 453/2010 of 20 May 2010.

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).

Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work (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

Revised formulation. NOTE: Lines within the margin indicate significant changes from the previous revision.

#### Revision date

17/02/2020

#### Supersedes date

15/02/2016

#### SDS number

5613

#### Hazard statements in full

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.