

## Safety data Sheet according to 1907/2006/EC, Article 31

Printing date 21.09.2023

Rev. n. 4 (replaces version 3)

Revision: 21.09.2023

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

- **1.1 Product identifier**
  - **Trade name:** Schuimmarkant
  - **UFI:** A500-X0W6-700D-YCX3
- **1.2 Relevant identified uses of the substance or mixture and uses advised against** Agricultural & turf use
  - **Application of the substance / the mixture**
    - Foam generator for agricultural use
    - To use with foam marker
- **1.3 Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:**
    - R. van Wesemael BV
    - Zoutestraat 109
    - 4561 TB Hulst
    - TEL. +31 (0)114 314853
  - **Further information obtainable from:** e-mail: info@wesemael.nl
- **1.4 Emergency telephone number:**
  - NVIC Utrecht +31 (0)88 7558000

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
  - **Classification according to Regulation (EC) No 1272/2008**
    - Skin Irrit. 2            H315 Causes skin irritation.
    - Eye Dam. 1            H318 Causes serious eye damage.
    - Aquatic Chronic 3    H412 Harmful to aquatic life with long lasting effects.
- **2.2 Label elements**
  - **Labelling according to Regulation (EC) No 1272/2008**
    - The product is classified and labelled according to the CLP regulation.
  - **Hazard pictograms**
    - GHS05
  - **Signal word** Danger
  - **Hazard-determining components of labelling:**
    - Alcohols, C12-14, ethoxylated, sulfates, sodium salts
    - sodium decyl sulphate
  - **Hazard statements**
    - H315 Causes skin irritation.
    - H318 Causes serious eye damage.
    - H412 Harmful to aquatic life with long lasting effects.
  - **Precautionary statements**
    - P101                    If medical advice is needed, have product container or label at hand.

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P102	Keep out of reach of children.
P264	Wash thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves / eye protection / face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

#### • 2.3 Other hazards

##### • Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

#### • 3.2 Mixtures

• **Description:** Mixture: consisting of the following components.

##### • Dangerous components:

CAS: 112-34-5 EINECS: 203-961-6 Index number: 603-096-00-8 Reg.nr.: 01-2119475104-44-XXXX	2-(2-butoxyethoxy)ethanol   Eye Irrit. 2, H319	10-20%
CAS: 68891-38-3 NLP: 500-234-8 Reg.nr.: 01-2119488639-16-XXXX	Alcohols, C12-14, ethoxylated, sulfates, sodium salts   Eye Dam. 1, H318;   Skin Irrit. 2, H315; Aquatic Chronic 3, H412 Specific concentration limits: Eye Dam. 1; H318: C ≥ 10 % Eye Irrit. 2; H319: 5 % ≤ C < 10 %	≥5-<10%
CAS: 142-87-0 EINECS: 205-568-5 Reg.nr.: 01-2119970328-30-XXXX	sodium decyl sulphate   Eye Dam. 1, H318;   Acute Tox. 4, H302; Skin Irrit. 2, H315; Aquatic Chronic 3, H412 Specific concentration limits: Eye Dam. 1; H318: C ≥ 20 % Eye Irrit. 2; H319: 10 % ≤ C < 20 %	4-7%
CAS: 112-72-1 EINECS: 204-000-3 Reg.nr.: 01-2119485910-33-XXXX	tetradecanol   Aquatic Chronic 1, H410 (M=1);   Eye Irrit. 2, H319	≥1-<2%

##### • Additional information:

For the wording of the listed hazard phrases refer to section 16.  
 If no ATE values are present, refer to LD/LC50 values in section 11.

### SECTION 4: First aid measures

#### • 4.1 Description of first aid measures

• **General information:** Immediately remove any clothing soiled by the product.

##### • After inhalation:

Supply fresh air.  
 Supply fresh air; consult doctor in case of complaints.  
 In case of unconsciousness place patient stably in side position for transportation.

##### • After skin contact:

Immediately wash with water and soap and rinse thoroughly.  
 If skin irritation continues, consult a doctor.

##### • After eye contact:

Protect unharmed eye.  
 Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

##### • After swallowing:

Rinse out mouth with water.  
 Do not induce vomiting.  
 If symptoms persist consult doctor.

• **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

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- **4.3 Indication of any immediate medical attention and special treatment needed** Symptomatic treatment

## SECTION 5: Firefighting measures

### · 5.1 Extinguishing media

#### · Suitable extinguishing agents:

Use fire extinguishing methods suitable to surrounding conditions.

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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

In case of fire, the following can be released:

Carbon monoxide (CO)

Carbon dioxide (CO<sub>2</sub>)

Nitrogen oxides (NO<sub>x</sub>)

Sulfur oxides (SO<sub>x</sub>)

### · 5.3 Advice for firefighters

· **Protective equipment:** Do not inhale explosion gases or combustion gases.

· **Additional information** Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

## SECTION 6: Accidental release measures

### · 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Wear protective equipment. Keep unprotected persons away.

### · 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

### · 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Ensure adequate ventilation.

### · 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## SECTION 7: Handling and storage

### · 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

#### · Information about fire - and explosion protection:

The product is not flammable.

No special measures required.

### · 7.2 Conditions for safe storage, including any incompatibilities

#### · Storage:

· **Requirements to be met by storerooms and receptacles:** Store in a cool location.

· **Information about storage in one common storage facility:**

Do not store together with oxidising and acidic materials.

Do not store together with alkalis (caustic solutions).

· **Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

Keep container tightly sealed.

Protect from frost.

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· **7.3 Specific end use(s)** No further relevant information available.

**SECTION 8: Exposure controls/personal protection**

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**
**CAS: 112-34-5 2-(2-butoxyethoxy)ethanol**

IOELV (EU)	Short-term value: 101.2 mg/m <sup>3</sup> , 15 ppm Long-term value: 67.5 mg/m <sup>3</sup> , 10 ppm
AGW (Germany)	Long-term value: 67 mg/m <sup>3</sup> , 10 ppm 1.5(l);EU, DFG, Y, 11
VL (Italy)	Short-term value: 101.2 mg/m <sup>3</sup> , 15 ppm Long-term value: 67.5 mg/m <sup>3</sup> , 10 ppm
TLV (USA)	Long-term value: 10* ppm *Inhalable fraction and vapor

**CAS: 112-72-1 tetradecanol**

MAK (Germany)	als Dampf und Aerosol;vgl.Abschn.IIb und Xc
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· **Regulatory information**

IOELV (EU): (EU) 2019/1831  
AGW (Germany): TRGS 900  
VL (Italy): D.Lgs. n. 81/2008  
TLV (USA): Guide to Occupational Exposure Values (TLV)  
MAK (Germany): MAK- und BAT-Liste

· **DNELs**
**CAS: 68891-38-3 Alcohols, C12-14, ethoxylated, sulfates, sodium salts**

Oral	DNEL / Long Term exposure - Systemic effects	1.125 mg/kg bw/d (general population)
Dermal	DNEL / Long Term exposure - Systemic effects	40.178 mg/kg bw/d (general population)
		80.357 mg/kg bw/d (workers)
	DNEL / Long Term exposure - Local effects	0.079 mg/kg (general population)
Inhalative		0.132 mg/kg (workers)
	DNEL / Long Term exposure - Systemic effects	1.4 mg/m <sup>3</sup> (general population)
		7.9 mg/m <sup>3</sup> (workers)

· **PNECs**
**CAS: 68891-38-3 Alcohols, C12-14, ethoxylated, sulfates, sodium salts**

PNEC / aqua	0.052-0.24 mg/l (freshwater)
	0.071 mg/l (intermittent releases)
	0.0052-0.024 mg/l (marine water)
PNEC / sediment	0.2-0.9168 mg/kg dw (freshwater)
	0.02-0.0917 mg/kg dw (marine water)
PNEC / soil	7.5 mg/kg dw
PNEC / STP	1-10 mg/l (sewage treatment plant)

**CAS: 142-87-0 sodium decyl sulphate**

PNEC / aqua	0.095 mg/l (freshwater)
	0.086 mg/l (intermittent releases)
	0.0095 mg/l (marine water)
PNEC / sediment	1.5 mg/kg dw (freshwater)
	0.15 mg/kg dw (marine water)
PNEC / soil	0.2445 mg/kg dw
PNEC / STP	1.35 mg/l (sewage treatment plant)

**CAS: 112-72-1 tetradecanol**

PNEC / aqua	0.00063 mg/l (freshwater)
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PNEC / soil	0.000063 mg/l (marine water) 0.428 mg/kg dw
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· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

- **Appropriate engineering controls** No further data; see section 7.
- **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.  
Do not eat or drink while working.  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.

· **Respiratory protection:**

Not necessary if room is well-ventilated.  
Use suitable respiratory protective device in case of insufficient ventilation.

· **Hand protection**

Protective gloves

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

Neoprene gloves  
Butyl rubber, BR  
Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye/face protection**

Tightly sealed goggles

· **Body protection:** Impervious protective clothing

## SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>· <b>Physical state</b></li> <li>· <b>Colour:</b></li> <li>· <b>Odour:</b></li> <li>· <b>Odour threshold:</b></li> <li>· <b>Melting point/freezing point:</b></li> <li>· <b>Boiling point or initial boiling point and boiling range</b></li> <li>· <b>Flammability</b></li> <li>· <b>Lower and upper explosion limit</b></li> <li>· <b>Lower:</b></li> <li>· <b>Upper:</b></li> <li>· <b>Flash point:</b></li> </ul> | <p>Fluid<br/>Yellow<br/>Characteristic<br/>Not determined.<br/>Undetermined.<br/>≥100 °C (acqua)<br/>Non-flammable mixture<br/>≥0.9 Vol % (CAS: 112-34-5 2-(2-butoxyethoxy)ethanol)<br/>≤5.9 Vol % (CAS: 112-34-5 2-(2-butoxyethoxy)ethanol)<br/>&gt;100 °C</p> |
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· <b>Auto-ignition temperature:</b>	≥210 °C (CAS: 112-34-5 2-(2-butoxyethoxy)ethanol)
· <b>Decomposition temperature:</b>	Not applicable. Mixture is not self-reactive, does not contain organic peroxides and does not decompose under the foreseen conditions of use
· <b>pH at 20 °C</b>	7
· <b>Viscosity:</b>	
· <b>Kinematic viscosity</b>	Not determined.
· <b>Solubility</b>	
· <b>water:</b>	Fully miscible.
· <b>Partition coefficient n-octanol/water (log value)</b>	Not applicable. The product is a mixture.
· <b>Vapour pressure at 20 °C:</b>	≤23 hPa (acqua)
· <b>Density and/or relative density</b>	
· <b>Density at 20 °C:</b>	1.02 g/cm <sup>3</sup>
· <b>Relative gas density</b>	Not determined.

· <b>9.2 Other information</b>	No further relevant information available.
· <b>Appearance:</b>	
· <b>Form:</b>	Liquid
· <b>Important information on protection of health and environment, and on safety.</b>	
· <b>Ignition temperature:</b>	Product is not selfigniting.
· <b>Explosive properties:</b>	Product does not present an explosion hazard.
· <b>Solvent content:</b>	
· <b>VOC (EC)</b>	10 %
· <b>Change in condition</b>	
· <b>Evaporation rate</b>	Not determined.

· <b>Information with regard to physical hazard classes</b>	
· <b>Explosives</b>	Void
· <b>Flammable gases</b>	Void
· <b>Aerosols</b>	Void
· <b>Oxidising gases</b>	Void
· <b>Gases under pressure</b>	Void
· <b>Flammable liquids</b>	Void
· <b>Flammable solids</b>	Void
· <b>Self-reactive substances and mixtures</b>	Void
· <b>Pyrophoric liquids</b>	Void
· <b>Pyrophoric solids</b>	Void
· <b>Self-heating substances and mixtures</b>	Void
· <b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
· <b>Oxidising liquids</b>	Void
· <b>Oxidising solids</b>	Void
· <b>Organic peroxides</b>	Void
· <b>Corrosive to metals</b>	Void
· <b>Desensitised explosives</b>	Void

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
  - **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions**
  - Reacts with acids, alkalis and oxidising agents.
  - Reacts with reducing agents.
- **10.4 Conditions to avoid** Protect from heat and direct sunlight.
- **10.5 Incompatible materials:** Keep away from: strong acids, strong bases and oxidation agents.

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· **10.6 Hazardous decomposition products:**

Carbon monoxide and carbon dioxide  
Nitrogen oxides (NO<sub>x</sub>)  
Sulphur oxides (SO<sub>x</sub>)

### SECTION 11: Toxicological information

· **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

· **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**

**ATE (Acute Toxicity Estimates)**

Oral	LD50	20,033 mg/kg (rat)
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**CAS: 112-34-5 2-(2-butoxyethoxy)ethanol**

Oral	LD50	2,410 mg/kg (rat) (OECD TG 401: Acute Oral Toxicity)
Dermal	LD50	2,764 mg/kg (rabbit) (OECD TG 402: Acute Dermal Toxicity)

**CAS: 68891-38-3 Alcohols, C12-14, ethoxylated, sulfates, sodium salts**

Oral	LD50	>2,000 mg/kg (rat) (OECD TG 401: Acute Oral Toxicity)
Dermal	LD50	>2,000 mg/kg (rat) (OECD TG 402: Acute Dermal Toxicity)

**CAS: 142-87-0 sodium decyl sulphate**

Oral	LD50	1,200 mg/kg (rat) (OECD TG 401: Acute Oral Toxicity)
Dermal	LD50	>2,000 mg/kg (rabbit) (OECD TG 402: Acute Dermal Toxicity)

**CAS: 112-72-1 tetradecanol**

Oral	LD50	>2,000 mg/kg (rat) (OECD TG 401: Acute Oral Toxicity)
Dermal	LD50	>8,000 mg/kg (rabbit)
Inhalative	LC50 / 1h	>1.5 mg/l (rat)

· **Skin corrosion/irritation**

Causes skin irritation.

· **Serious eye damage/irritation**

Causes serious eye damage.

· **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

· **Germ cell mutagenicity** Based on available data, the classification criteria are not met.

· **Carcinogenicity** Based on available data, the classification criteria are not met.

· **Reproductive toxicity** Based on available data, the classification criteria are not met.

· **STOT-single exposure** Based on available data, the classification criteria are not met.

· **STOT-repeated exposure** Based on available data, the classification criteria are not met.

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

· **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

### SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

**CAS: 112-34-5 2-(2-butoxyethoxy)ethanol**

EC50 / 48h	>100 mg/l (crustacea - Daphnia magna) (OECD TG 202: Daphnia sp. Acute Immobilisation Test)
LC50 / 96h	1,300 mg/l (fish - Lepomis macrochirus) (OECD TG 203: Fish, Acute Toxicity Test)
ErC50 / 96h	>100 mg/l (algae - Scenedesmus sp.) (OECD TG 201: Alga, Growth Inhibition Test)

**CAS: 68891-38-3 Alcohols, C12-14, ethoxylated, sulfates, sodium salts**

EC50 / 48h	7.4 mg/l (crustacea - Daphnia magna) (OECD TG 202: Daphnia sp. Acute Immobilisation Test)
LC50 / 96h	7.1 mg/l (fish - Brachydanio rerio) (OECD TG 203: Fish, Acute Toxicity Test)

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EC50 / 72h	27.7 mg/l (a05) (OECD TG 201: Alga, Growth Inhibition Test)
NOEC / 21d	0.27 mg/l (crustacea - Daphnia magna) (OECD TG 211: Daphnia Magna Reproduction Test)
<b>CAS: 112-72-1 tetradecanol</b>	
EC50 / 48h	3.2 mg/l (crustacea - Daphnia magna) (OECD TG 202: Daphnia sp. Acute Immobilisation Test)
LC50 / 96h	>1 mg/l (fish - Oncorhynchus mykiss) (OECD TG 203: Fish, Acute Toxicity Test)
EC50 / 72h	>10 mg/l (a05) (OECD TG 201: Alga, Growth Inhibition Test)

• **12.2 Persistence and degradability** No further relevant information available.

• **12.3 Bioaccumulative potential**

<b>CAS: 112-34-5 2-(2-butoxyethoxy)ethanol</b>	
Log Kow	1
<b>CAS: 68891-38-3 Alcohols, C12-14, ethoxylated, sulfates, sodium salts</b>	
Log Kow	0.3
<b>CAS: 142-87-0 sodium decyl sulphate</b>	
Log Kow	1.72
<b>CAS: 112-72-1 tetradecanol</b>	
Log Kow	5.5

• **12.4 Mobility in soil** No further relevant information available.

• **12.5 Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

• **12.6 Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.

• **12.7 Other adverse effects**

• **Additional ecological information:**

• **General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.

**SECTION 13: Disposal considerations**

• **13.1 Waste treatment methods**

• **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.  
Disposal must be made according to official regulations.

• **Uncleaned packaging:**

• **Recommendation:**

Disposal must be made according to official regulations.  
Packagings that may not be cleansed are to be disposed of in the same manner as the product.

**SECTION 14: Transport information**

• <b>14.1 UN number or ID number</b>	
• <b>ADR/RID/ADN, ADN, IMDG, IATA</b>	Void
• <b>14.2 UN proper shipping name</b>	
• <b>ADR/RID/ADN, ADN, IMDG, IATA</b>	Void
• <b>14.3 Transport hazard class(es)</b>	
• <b>ADR/RID/ADN, ADN, IMDG, IATA</b>	
• <b>Class</b>	Void
• <b>14.4 Packing group</b>	
• <b>ADR/RID/ADN, IMDG, IATA</b>	Void

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· <b>14.5 Environmental hazards:</b>	
· <b>Marine pollutant:</b>	No
· <b>14.6 Special precautions for user</b>	Not applicable.
· <b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable.
· <b>Transport/Additional information:</b>	Not dangerous according to the above specifications.
· <b>UN "Model Regulation":</b>	Void

**SECTION 15: Regulatory information**

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
Regulation (EC) No 1907/2006 (REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals)  
Regulation (EC) No 1272/2008 (CLP - Classification, Labelling and Packaging of substances and mixtures)  
Compilation of Safety Data Sheet: Reg.UE n. 878/2020 (amending Reg.EC n.1907/2006, Annex II)

· **Regulation (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 55

· **Directive 2012/18/EU (Seveso)**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **REGULATION (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

· **REGULATION (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

· **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H410 Very toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.

· **Classification according to Regulation (EC) No 1272/2008**

Skin corrosion/irritation Serious eye damage/irritation Hazardous to the aquatic environment - long-term (chronic) aquatic hazard	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.
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· **Version number of previous version:** 3

· **Abbreviations and acronyms:**

- PNEC: Predicted No-Effect Concentration (REACH)
- LC50: Lethal concentration, 50 percent
- REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
- CLP: Classification, Labelling and Packaging

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ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
TLV: Threshold Limit Value  
TLV-TWA: Threshold Limit Value - Time Weighted Average  
TLV-STEL: Threshold Limit Value - Short Term Exposure Limit  
PEL: Permissible Exposure Limits (Limiti di esposizione consentiti)  
REL: Recommended Exposure Limits (Limiti di esposizione raccomandati)  
IOELV: Indicative Occupational Exposure Limit Value  
WEELs: Workplace Environmental Exposure Limits (Limiti di esposizione ambientale sul posto di lavoro)  
BEI: Biological Exposure Indices  
LC50: Lethal Concentration, 50 percent  
EC50: Effective Concentration, 50 percent  
ErC50: Effective Concentration, 50 percent, reduction of growth rate  
LL50: Lethal Loading, 50 percent  
EL50: Effective Loading, 50 percent  
NOEC: No-Observed Effect Concentration  
NOELR: No Observed Effect Loading Rate  
Kow: Octanol-Water partition coefficient  
BCF: BioConcentration Factor  
DNEL: Derived No-Effect Level (REACH)  
PNEC: Predicted No-Effect Concentration [REACH]  
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
VOC: Volatile Organic Compounds (USA, EU)  
DNEL: Derived No-Effect Level (REACH)  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
WGK: Wassergefährdungsklasse - Water hazard class, Germany  
Acute Tox. 4: Acute toxicity - Category 4  
Skin Irrit. 2: Skin corrosion/irritation - Category 2  
Eye Dam. 1: Serious eye damage/eye irritation - Category 1  
Eye Irrit. 2: Serious eye damage/eye irritation - Category 2  
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1  
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3  
• **\* Data compared to the previous version altered.**