

# SAFETY DATA SHEET

Based upon Regulation (EC) No 1907/2006, as amended by Regulation (EU) No 2020/878

## AQUASOLV

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

#### 1.1. Product identifier

Product name : AQUASOLV  
Registration number REACH : Not applicable (mixture)  
Product type REACH : Mixture

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

##### 1.2.1 Relevant identified uses

Detergent according to Regulation (EC) No 648/2004

##### 1.2.2 Uses advised against

No uses advised against known

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

##### Supplier of the safety data sheet

Novatio\*  
Industrielaan 5B  
B-2250 Olen  
☎ +32 14 25 76 40  
☎ +32 14 22 02 66  
info@novatio.be  
\*NOVATIO is a registered trademark of Novatech International N.V.

##### Manufacturer of the product

Novatech International N.V.  
Industrielaan 5B  
B-2250 Olen  
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info@novatech.be

#### 1.4. Emergency telephone number

24h/24h (Telephone advice: English, French, German, Dutch) :  
+32 14 58 45 45 (BIG)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

Class	Category	Hazard statements
Skin Corr.	category 1B	H314: Causes severe skin burns and eye damage.
Eye Dam.	category 1	H318: Causes serious eye damage.

#### 2.2. Label elements



Contains: isotridecanol, ethoxylated; disodium metasilicate; sodium hydroxide.

**Signal word** Danger

**H-statements**  
H314 Causes severe skin burns and eye damage.

**P-statements**  
P280 Wear protective gloves, protective clothing and eye protection/face protection.  
P260 Do not breathe vapours/mist.  
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
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.

#### 2.3. Other hazards

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No other hazards known

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name REACH Registration No	CAS No EC No	Conc. (C)	Classification according to CLP	Note	Remark	M-factors and ATE
isotridecanol, ethoxylated	69011-36-5	5%<C<15%	Acute Tox. 4; H302 Eye Dam. 1; H318	(1)(10)	Constituent	
propan-2-ol 01-2119457558-25	67-63-0 200-661-7	C<5%	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	(1)(2)(10)	Constituent	
disodium metasilicate 01-2119449811-37	6834-92-0 229-912-9	C<5%	Met. Corr. 1; H290 Skin Corr. 1B; H314 Eye Dam. 1; H318 STOT SE 3; H335	(1)(10)	Constituent	
2-(2-butoxyethoxy)ethanol 01-2119475104-44	112-34-5 203-961-6	C<5%	Eye Irrit. 2; H319	(1)(2)(10)	Constituent	
tetrasodium ethylene diamine tetraacetate 01-2119486762-27	64-02-8 200-573-9	C<0.9%	Acute Tox. 4; H332 Acute Tox. 4; H302 STOT RE 2; H373 Eye Dam. 1; H318	(1)(6)(10)	Constituent	
sodium hydroxide 01-2119457892-27	1310-73-2 215-185-5	C<0.9%	Met. Corr. 1; H290 Skin Corr. 1A; H314 Eye Dam. 1; H318 Skin Corr. 1A; H314: C≥5%, (CLP Annex VI (ATP 0)) Skin Corr. 1B; H314: 2%≤C<5% , (CLP Annex VI (ATP 0)) Skin Irrit. 2; H315: 0,5% ≤C<2%, (CLP Annex VI (ATP 0)) Eye Irrit. 2; H319: 0,5%≤C<2% , (CLP Annex VI (ATP 0))	(1)(2)(6)(10)	Constituent	

(1) For H- and EUH-statements in full: see section 16

(2) Substance with a Community workplace exposure limit

(6) Enumerated in Annex VI of Regulation (EC) No. 1272/2008 but the classification has been adapted after evaluation of available test data

(10) Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General:

Observe (own) safety. If possible, approach victim and check vital functions. In case of injury and/or intoxication, call the European emergency number 112. Treat symptoms starting with most life-threatening injuries and disorders. Keep victim under observation, possibility of delayed symptoms.

#### After inhalation:

Remove victim into fresh air. Immediately consult a doctor/medical service.

#### After skin contact:

If possible, wipe up/dry remove chemical. Then rinse/shower immediately for 30 minutes with (lukewarm) water. Cut clothing; never remove burnt clothing from the wound. Do not give any pain medication. Consult a doctor/medical service.

#### After eye contact:

Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult a doctor/medical service.

#### After ingestion:

Rinse mouth with water. Immediately consult a doctor/medical service. Do not wait for symptoms to occur to consult Poison Center.

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

#### 4.2.1 Acute symptoms

##### After inhalation:

EXPOSURE TO HIGH CONCENTRATIONS: Corrosion of the upper respiratory tract.

##### After skin contact:

Caustic burns/corrosion of the skin.

##### After eye contact:

Corrosion of the eye tissue.

##### After ingestion:

Vomiting. Burns to the gastric/intestinal mucosa. Possible esophageal perforation.

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## 4.2.2 Delayed symptoms

No effects known.

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

If applicable and available it will be listed below.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### 5.1.1 Suitable extinguishing media:

Small fire: Quick-acting ABC powder extinguisher, Quick-acting BC powder extinguisher, Quick-acting class B foam extinguisher, Quick-acting CO2 extinguisher.

Major fire: Class B foam (alcohol-resistant), Water spray if puddle cannot expand.

#### 5.1.2 Unsuitable extinguishing media:

Small fire: Water (quick-acting extinguisher, reel); risk of puddle expansion.

Major fire: Water; risk of puddle expansion.

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

Upon combustion: CO and CO2 are formed.

### 5.3. Advice for firefighters

#### 5.3.1 Instructions:

If exposed to fire cool the closed containers by spraying with water. Do not move the load if exposed to heat. Take account of toxic fire-fighting water. Use water moderately and if possible collect or contain it.

#### 5.3.2 Special protective equipment for fire-fighters:

Gloves (EN 374). Protective goggles (EN 166). Corrosion-proof suit (EN 14605). Heat/fire exposure: self-contained breathing apparatus (EN 136 + EN 137).

## SECTION 6: Accidental release measures

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

No naked flames. Exposure to fire/heat: keep upwind. Exposure to fire/heat: have neighbourhood close doors and windows.

#### 6.1.1 Protective equipment for non-emergency personnel

See section 8.2

#### 6.1.2 Protective equipment for emergency responders

Gloves (EN 374). Protective goggles (EN 166). Corrosion-proof suit (EN 14605).

Suitable protective clothing

See section 8.2

### 6.2. Environmental precautions

Contain released product. Dam up the liquid spill. Try to reduce evaporation. Take account of toxic/corrosive precipitation water. Prevent soil and water pollution. Prevent spreading in sewers.

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

Take up liquid spill into inert absorbent material. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers.

Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

### 6.4. Reference to other sections

See section 13.

## SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

### 7.1. Precautions for safe handling

Keep away from naked flames/heat. Observe strict hygiene. Remove contaminated clothing immediately. Keep container tightly closed. Do not discharge the waste into the drain.

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

#### 7.2.1 Safe storage requirements:

Meet the legal requirements. Protect against frost.

#### 7.2.2 Keep away from:

Heat sources, oxidizing agents, reducing agents, (strong) acids, (strong) bases.

#### 7.2.3 Suitable packaging material:

No data available

#### 7.2.4 Non suitable packaging material:

Metal.

### 7.3. Specific end use(s)

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 Occupational exposure

##### a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

#### EU

2-(2-Butoxyethoxy)ethanol	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	10 ppm
	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	67.5 mg/m <sup>3</sup>
	Short time value (Indicative occupational exposure limit value)	15 ppm
	Short time value (Indicative occupational exposure limit value)	101.2 mg/m <sup>3</sup>

#### Belgium

2-(2-Butoxyéthoxy)éthanol	Time-weighted average exposure limit 8 h	10 ppm
	Time-weighted average exposure limit 8 h	67.5 mg/m <sup>3</sup>
	Short time value	15 ppm
	Short time value	101.2 mg/m <sup>3</sup>
Alcool isopropylique	Time-weighted average exposure limit 8 h	200 ppm
	Time-weighted average exposure limit 8 h	500 mg/m <sup>3</sup>
	Short time value	400 ppm
	Short time value	1000 mg/m <sup>3</sup>
Sodium (hydroxyde de)	Time-weighted average exposure limit 8 h	2 mg/m <sup>3</sup> (1)

(1) M: La mention "M" indique que lors d'une exposition supérieure à la valeur limite, des irritations apparaissent ou un danger d'intoxication aiguë existe. Le procédé de travail doit être conçu de telle façon que l'exposition ne dépasse jamais la valeur limite. Lors des mesurages, la période d'échantillonnage doit être aussi courte que possible afin de pouvoir effectuer des mesurages fiables. Le résultat des mesurages est calculé en fonction de la période d'échantillonnage.

#### The Netherlands

2-(2-Butoxyethoxy)ethanol	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	7.4 ppm
	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	50 mg/m <sup>3</sup>
	Short time value (Public occupational exposure limit value)	14.8 ppm
	Short time value (Public occupational exposure limit value)	100 mg/m <sup>3</sup>

#### France

2-(2-butoxyethoxy)éthanol	Time-weighted average exposure limit 8 h (VRI: Valeur réglementaire indicative)	10 ppm
	Time-weighted average exposure limit 8 h (VRI: Valeur réglementaire indicative)	67.5 mg/m <sup>3</sup>
	Short time value (VRI: Valeur réglementaire indicative)	15 ppm
	Short time value (VRI: Valeur réglementaire indicative)	101.2 mg/m <sup>3</sup>
Alcool isopropylique	Short time value (VL: Valeur non réglementaire indicative)	400 ppm
	Short time value (VL: Valeur non réglementaire indicative)	980 mg/m <sup>3</sup>
Sodium (hydroxyde de)	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative)	2 mg/m <sup>3</sup>

#### Germany

2-(2-Butoxyethoxy)ethanol	Time-weighted average exposure limit 8 h (TRGS 900)	10 ppm (1)
	Time-weighted average exposure limit 8 h (TRGS 900)	67 mg/m <sup>3</sup> (1)
	<i>Summe aus Dampf und Aerosolen.</i>	
Natriumhydroxid	<i>vgl. Abschn. IIb</i>	
Propan-2-ol	Time-weighted average exposure limit 8 h (TRGS 900)	200 ppm (2)
	Time-weighted average exposure limit 8 h (TRGS 900)	500 mg/m <sup>3</sup> (2)

(1) UF: 1,5 (I)

(2) UF: 2 (II)

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## Austria

2-Propanol Kurzzeitwert für Großguss	*) Kurzzeitwert für Großguss gilt bis 31.12.2013	
	Tagesmittelwert (MAK)	200 ppm
	Tagesmittelwert (MAK)	500 mg/m <sup>3</sup>
	Kurzzeitwert 30(Miw) 4x (MAK)	800 ppm
	Kurzzeitwert 30(Miw) 4x (MAK)	2000 mg/m <sup>3</sup>
2-Propanol	Tagesmittelwert (MAK)	200 ppm
	Tagesmittelwert (MAK)	500 mg/m <sup>3</sup>
	Kurzzeitwert 15(Miw) 4x (MAK)	800 ppm
	Kurzzeitwert 15(Miw) 4x (MAK)	2000 mg/m <sup>3</sup>
Butyldiglykol	Tagesmittelwert (MAK)	10 ppm
	Tagesmittelwert (MAK)	67.5 mg/m <sup>3</sup>
	Kurzzeitwert 15(Miw) 4x (MAK)	15 ppm
	Kurzzeitwert 15(Miw) 4x (MAK)	101.2 mg/m <sup>3</sup>
Natriumhydroxid	Tagesmittelwert (MAK)	2 mg/m <sup>3</sup> (1)
	Kurzzeitwert 5(Mow) 8x (MAK)	4 mg/m <sup>3</sup> (1)

(1) Einatembare Fraktion

## UK

2-(2-Butoxyethoxy)ethanol	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	10 ppm
	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	67.5 mg/m <sup>3</sup>
	Short time value (Workplace exposure limit (EH40/2005))	15 ppm
	Short time value (Workplace exposure limit (EH40/2005))	101.2 mg/m <sup>3</sup>
Propan-2-ol	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	400 ppm
	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	999 mg/m <sup>3</sup>
	Short time value (Workplace exposure limit (EH40/2005))	500 ppm
	Short time value (Workplace exposure limit (EH40/2005))	1250 mg/m <sup>3</sup>
Sodium hydroxide	Short time value (Workplace exposure limit (EH40/2005))	2 mg/m <sup>3</sup>

## USA (TLV-ACGIH)

2-propanol	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	200 ppm
	Short time value (TLV - Adopted Value)	400 ppm
Diethylene glycol monobutyl ether	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	10 ppm (1)
Sodium hydroxide	Momentary value (TLV - Adopted Value)	2 mg/m <sup>3</sup>

(1) (IFV): Inhalable fraction and vapor

### b) National biological limit values

If limit values are applicable and available these will be listed below.

#### Germany

Propan-2-ol (Aceton)	Urin: expositionsende, bzw. schichtende	25 mg/l	
Propan-2-ol (Aceton)	Vollblut: expositionsende, bzw. schichtende	25 mg/l	

#### USA (BEI-ACGIH)

2-Propanol (Acetone)	Urine: end of shift at end of workweek	40 mg/L	Background, Nonspecific
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### 8.1.2 Sampling methods

Product name	Test	Number
Butyl Carbitol	OSHA	2095
Isopropanol (Volatile Organic compounds)	NIOSH	2549
Isopropyl Alcohol (Alcohols I)	NIOSH	1400
Isopropyl Alcohol	NIOSH	3900
Isopropyl Alcohol	OSHA	5001
Sodium Hydroxide (Alkaline Dust)	NIOSH	7401
Sodium Hydroxide	NIOSH	7405

### 8.1.3 Applicable limit values when using the substance or mixture as intended

If limit values are applicable and available these will be listed below.

### 8.1.4 Threshold values

#### DNEL/DMEL - Workers

##### propan-2-ol

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	500 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	888 mg/kg bw/day	

##### disodium metasilicate

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	6.22 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	1.49 mg/kg bw/day	

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## 2-(2-butoxyethoxy)ethanol

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term local effects inhalation	67.5 mg/m <sup>3</sup>	
	Acute local effects inhalation	101.2 mg/m <sup>3</sup>	

## tetrasodium ethylene diamine tetraacetate

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	1.5 mg/m <sup>3</sup>	
	Acute systemic effects inhalation	3 mg/m <sup>3</sup>	
	Long-term local effects inhalation	1.5 mg/m <sup>3</sup>	
	Acute local effects inhalation	3 mg/m <sup>3</sup>	

## sodium hydroxide

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term local effects inhalation	1 mg/m <sup>3</sup>	

## DNEL/DMEL - General population

### propan-2-ol

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	89 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	319 mg/kg bw/day	
	Long-term systemic effects oral	26 mg/kg bw/day	

### disodium metasilicate

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	1.55 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	0.74 mg/kg bw/day	
	Long-term systemic effects oral	0.74 mg/kg bw/day	

## 2-(2-butoxyethoxy)ethanol

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects oral	6.25 mg/kg bw/day	

## tetrasodium ethylene diamine tetraacetate

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term local effects inhalation	0.6 mg/m <sup>3</sup>	
	Acute local effects inhalation	1.2 mg/m <sup>3</sup>	
	Long-term systemic effects oral	25 mg/kg bw/day	

## sodium hydroxide

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term local effects inhalation	1 mg/m <sup>3</sup>	

## PNEC

### disodium metasilicate

Compartments	Value	Remark
Fresh water	7.5 mg/l	
Marine water	1 mg/l	
Fresh water (intermittent releases)	7.5 mg/l	
STP	1000 mg/l	

### 2-(2-butoxyethoxy)ethanol

Compartments	Value	Remark
Fresh water	1.1 mg/l	
Marine water	0.11 mg/l	
Fresh water (intermittent releases)	11 mg/l	
Fresh water sediment	4.4 mg/kg sediment dw	
Marine water sediment	0.44 mg/kg sediment dw	
Soil	0.32 mg/kg soil dw	
Oral	56 mg/kg food	

### tetrasodium ethylene diamine tetraacetate

Compartments	Value	Remark
Fresh water	2.83 mg/l	
Marine water	0.283 mg/l	
STP	50 mg/l	
Soil	1.1 mg/kg soil dw	

### 8.1.5 Control banding

If applicable and available it will be listed below.

## 8.2. Exposure controls

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

### 8.2.1 Appropriate engineering controls

Keep away from naked flames/heat. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

### 8.2.2 Individual protection measures, such as personal protective equipment

Observe strict hygiene. Do not eat, drink or smoke during work.

#### a) Respiratory protection:

Full face mask with filter type A. High vapour/gas concentration: self-contained breathing apparatus (EN 136 + EN 137).

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## b) Hand protection:

Protective gloves against chemicals (EN 374).

Materials	Measured breakthrough time	Thickness	Protection index	Remark
nitrile rubber	> 480 minutes	0.35 mm	Class 6	

## c) Eye protection:

Combined eye and respiratory protection.

## d) Skin protection:

Head/neck protection. Corrosion-proof clothing (EN 14605).

## 8.2.3 Environmental exposure controls:

See sections 6.2, 6.3 and 13

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical form	Liquid
Colour	Blue
Odour	Characteristic odour
Odour threshold	No data available in the literature
Melting point	No data available in the literature
Boiling point	82 °C - 233 °C
Flammability	Not classified as flammable
Explosion limits	No data available in the literature
Flash point	No data available in the literature
Auto-ignition temperature	200 °C
Decomposition temperature	No data available in the literature
pH	12.9 ; 20 °C
Kinematic viscosity	1 mm <sup>2</sup> /s ; 20 °C
Dynamic viscosity	1 mPa.s ; 20 °C
Solubility	Water ; complete
Log Kow	Not applicable (mixture)
Vapour pressure	43 hPa ; 20 °C
Absolute density	1031 kg/m <sup>3</sup> ; 20 °C
Relative density	1.03 ; 20 °C
Relative vapour density	No data available in the literature
Particle size	Not applicable (liquid)

### 9.2. Other information

Evaporation rate	1.3 ; Butyl acetate
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Heating increases the fire hazard. Basic reaction.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No data available.

### 10.4. Conditions to avoid

#### Precautionary measures

Keep away from naked flames/heat.

### 10.5. Incompatible materials

Oxidizing agents, reducing agents, (strong) acids, (strong) bases.

### 10.6. Hazardous decomposition products

Upon combustion: CO and CO<sub>2</sub> are formed.

## SECTION 11: Toxicological information

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

#### 11.1.1 Test results

#### Acute toxicity

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No (test)data on the mixture available

Judgement is based on the relevant ingredients

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## isotridecanol, ethoxylated

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral			category 4			Literature study	

## propan-2-ol

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	Equivalent to OECD 401	5840 mg/kg bw		Rat	Experimental value	
Dermal	LD50	Equivalent to OECD 402	16400 ml/kg bw	24 h	Rabbit	Experimental value	
Inhalation (vapours)	LC50	Equivalent to OECD 403	> 10000 ppm	6 h	Rat (male / female)	Experimental value	

## disodium metasilicate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50		1152 mg/kg bw - 1349 mg/kg bw		Rat (male / female)	Experimental value	10 % aqueous solution
Dermal	LD50	EPA OPPTS 870.1200	> 5000 mg/kg bw	24 h	Rat (male / female)	Experimental value	Aqueous solution
Inhalation (vapours)	LC50	EPA OPPTS 870.1300	> 2.06 mg/l	4 h	Rat (male / female)	Experimental value	Aqueous solution

## 2-(2-butoxyethoxy)ethanol

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	Equivalent to OECD 401	2410 mg/kg bw - 5530 mg/kg bw		Mouse (male)	Experimental value	
Dermal	LD50	Equivalent to OECD 402	2764 mg/kg bw	24 h	Rabbit (male)	Experimental value	
Inhalation (aerosol)	IRT (inhalation risk test)	BASF test	> 29 ppm	2 h	Rat	Experimental value	

## tetrasodium ethylene diamine tetraacetate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	Equivalent to OECD 401	1913 mg/kg bw		Rat (male)	Experimental value	
Oral	LD50	Equivalent to OECD 401	1780 mg/kg bw		Rat (female)	Experimental value	
Dermal						Data waiving	
Inhalation (aerosol)	LOAEC	OECD 412	30 mg/m <sup>3</sup> air	6 h	Rat (male)	Experimental value	
Inhalation (dust)			category 4			Expert judgement	

## sodium hydroxide

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral						Data waiving	
Dermal						Data waiving	
Inhalation						Data waiving	

## Conclusion

Not classified for acute toxicity

## Corrosion/irritation

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No (test)data on the mixture available

Classification is based on the relevant ingredients

### isotridecanol, ethoxylated

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Serious eye damage; category 1						

### propan-2-ol

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Irritating	Equivalent to OECD 405		1; 2; 3; 4; 7; 10; 14 days	Rabbit	Experimental value	Single treatment without rinsing
Skin	Not irritating		4 h	4; 24; 48; 72 hours	Rabbit	Experimental value	

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## disodium metasilicate

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Not applicable (in vitro test)	Serious eye damage		0.17 minutes	30 minutes; 1; 2; 4 hours; daily (14 days)	Rabbit	Experimental value	
Skin	Corrosive	OECD 404	4 h	1; 24; 48; 72 hours	Rabbit	Experimental value	
Inhalation	Irritating; STOT SE cat.3					Annex VI	

## 2-(2-butoxyethoxy)ethanol

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Highly irritating	OECD 405	72 h	24; 48; 72 hours	Rabbit	Experimental value	Single treatment with rinsing
Skin	Slightly irritating	OECD 404	1 h	24; 48; 72 hours	Rabbit	Experimental value	

## tetrasodium ethylene diamine tetraacetate

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Serious eye damage	Equivalent to OECD 405		24; 48; 72 hours	Rabbit	Experimental value	Single treatment without rinsing
Skin	Slightly irritating	OECD 404	4 h	24; 48; 72 hours	Rabbit	Experimental value	

## sodium hydroxide

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Irritating	OECD 405		4; 24; 48; 72; 96 hours	Rabbit	Experimental value	2% aqueous solution
Eye	Serious eye damage; category 1					Annex VI	
Skin	Irritating	Equivalent to OECD 404		1; 24; 48; 72; 168 hours	Rabbit	Experimental value	5% aqueous solution
Not applicable (in vitro test)	Corrosive	Equivalent to OECD 435			Reconstructed human epidermis	Experimental value	
Skin	Highly corrosive; category 1A					Annex VI	

### Conclusion

Causes severe skin burns and eye damage.

Not classified as irritating to the respiratory system

### Respiratory or skin sensitisation

#### AQUASOLV

No (test)data on the mixture available

Judgement is based on the relevant ingredients

#### propan-2-ol

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Dermal	Not sensitizing	OECD 406			Guinea pig (male / female)	Experimental value	

#### disodium metasilicate

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Dermal (on the ears)	Not sensitizing	OECD 429			Mouse (female)	Experimental value	

#### 2-(2-butoxyethoxy)ethanol

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	Equivalent to OECD 406			Guinea pig (male / female)	Experimental value	

#### tetrasodium ethylene diamine tetraacetate

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	OECD 406			Guinea pig (female)	Experimental value	

#### sodium hydroxide

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	Human observation			Human (male)	Experimental value	Aqueous solution

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## Conclusion

Not classified as sensitizing for inhalation  
Not classified as sensitizing for skin

## Specific target organ toxicity

### AQUASOLV

No (test)data on the mixture available

Judgement is based on the relevant ingredients

#### propan-2-ol

Route of exposure	Parameter	Method	Value	Organ/Effect	Exposure time	Species	Value determination	Remark
Oral							Data waiving	
Dermal							Data waiving	
Inhalation (vapours)	NOAEC	OECD 451	5000 ppm	No adverse systemic effects	104 weeks (6h / day, 5 days / week)	Rat (male / female)	Experimental value	
Inhalation (vapours)	Dose level	Equivalent to OECD 403	5000 ppm	Central nervous system (drowsiness, dizziness)	6 h	Rat (male / female)	Experimental value	

#### disodium metasilicate

Route of exposure	Parameter	Method	Value	Organ/Effect	Exposure time	Species	Value determination	Remark
Oral (drinking water)	NOAEL	Equivalent to OECD 408	227 mg/kg bw/day - 237 mg/kg bw/day	No effect	3 month(s)	Rat (male / female)	Experimental value	
Dermal							Data waiving	
Inhalation							Data waiving	

#### 2-(2-butoxyethoxy)ethanol

Route of exposure	Parameter	Method	Value	Organ/Effect	Exposure time	Species	Value determination	Remark
Oral (drinking water)	NOAEL	OECD 408	250 mg/kg bw/day	No effect	90 days (continuous)	Rat (male / female)	Experimental value	
Dermal	NOAEL local effects	EPA TSCA consent order	< 200 mg/kg bw/day	Skin (not irritating)	13 weeks (daily, 5 days / week)	Rat (male / female)	Experimental value	
Dermal	NOAEL systemic effects	EPA OTS 798.6050	2000 mg/kg bw/day	No adverse systemic effects	13 weeks (daily, 5 days / week)	Rat (male / female)	Experimental value	
Inhalation	NOAEL	OECD 413	94 mg/m <sup>3</sup> air	Lungs (no effect)	90 days (6h / day)	Rat (male / female)	Experimental value	

#### tetrasodium ethylene diamine tetraacetate

Route of exposure	Parameter	Method	Value	Organ/Effect	Exposure time	Species	Value determination	Remark
Oral (diet)	NOAEL	Subchronic toxicity test	≥ 500 mg/kg bw/day	No adverse systemic effects	13 weeks (daily)	Rat (male)	Experimental value	
Inhalation (dust)	NOAEL local effects	OECD 413	3 mg/m <sup>3</sup> air	No effect	13 weeks (6h / day, 5 days / week)	Rat (male / female)	Experimental value of similar product	
Inhalation (dust)	LOAEC	OECD 413	15 mg/m <sup>3</sup> air	Respiratory tract (histopathology)	13 weeks (6h / day, 5 days / week)	Rat (female)	Experimental value of similar product	

#### sodium hydroxide

Route of exposure	Parameter	Method	Value	Organ/Effect	Exposure time	Species	Value determination	Remark
Oral							Data waiving	
Dermal							Data waiving	
Inhalation							Data waiving	

## Conclusion

Not classified for subchronic toxicity

## Mutagenicity (in vitro)

### AQUASOLV

No (test)data on the mixture available

Judgement is based on the relevant ingredients

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propan-2-ol

Result	Method	Test substrate	Effect	Value determination	Remark
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value	
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 476	Chinese hamster ovary (CHO)	No effect	Experimental value	

disodium metasilicate

Result	Method	Test substrate	Effect	Value determination	Remark
Negative with metabolic activation, negative without metabolic activation	OECD 471	Bacteria (S. typhimurium and E. coli)		Experimental value	
Negative with metabolic activation, negative without metabolic activation	OECD 476	Chinese hamster lung fibroblasts (V79)		Experimental value	

2-(2-butoxyethoxy)ethanol

Result	Method	Test substrate	Effect	Value determination	Remark
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 476	Chinese hamster ovary (CHO)		Experimental value	
Negative with metabolic activation, negative without metabolic activation	OECD 471	Bacteria (S. typhimurium and E. coli)		Experimental value	

tetrasodium ethylene diamine tetraacetate

Result	Method	Test substrate	Effect	Value determination	Remark
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 471	Bacteria (S. typhimurium and E. coli)		Experimental value	

sodium hydroxide

Result	Method	Test substrate	Effect	Value determination	Remark
				Data waiving	

**Mutagenicity (in vivo)**

AQUASOLV

No (test)data on the mixture available  
Judgement is based on the relevant ingredients

propan-2-ol

Result	Method	Exposure time	Test substrate	Organ/Effect	Value determination	Remark
Negative (Intraperitoneal)	Equivalent to OECD 474		Mouse (male / female)	No effect	Experimental value	Single intraperitoneal injection

disodium metasilicate

Result	Method	Exposure time	Test substrate	Organ/Effect	Value determination	Remark
Negative (Oral (diet))	Equivalent to OECD 475	24 h	Mouse (male)	No effect	Experimental value	

2-(2-butoxyethoxy)ethanol

Result	Method	Exposure time	Test substrate	Organ/Effect	Value determination	Remark
Negative (Oral (stomach tube))	Equivalent to OECD 475		Mouse (male / female)	No effect	Experimental value	Single treatment

tetrasodium ethylene diamine tetraacetate

Result	Method	Exposure time	Test substrate	Organ/Effect	Value determination	Remark
Negative (Oral (stomach tube))	OECD 474	2 dose(s)/24-hour interval	Mouse (male)	Bone marrow (no effect)	Experimental value	Similar product

sodium hydroxide

Result	Method	Exposure time	Test substrate	Organ/Effect	Value determination	Remark
					Data waiving	

**Conclusion**

Not classified for mutagenic or genotoxic toxicity

**Carcinogenicity**

AQUASOLV

No (test)data on the mixture available  
Judgement is based on the relevant ingredients

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# AQUASOLV

## propan-2-ol

Route of exposure	Parameter	Method	Value	Organ/Effect	Exposure time	Species	Value determination	Remark
Inhalation (vapours)	NOEL	OECD 451	5000 ppm	No carcinogenic effect	104 weeks (6h / day, 5 days / week)	Rat (male / female)	Experimental value	

## tetrasodium ethylene diamine tetraacetate

Route of exposure	Parameter	Method	Value	Organ/Effect	Exposure time	Species	Value determination	Remark
Oral (diet)	NOAEL	Carcinogenic toxicity study	≥ 495 mg/kg bw/day	No carcinogenic effect	103 weeks (daily)	Rat (male / female)	Experimental value	

## sodium hydroxide

Route of exposure	Parameter	Method	Value	Organ/Effect	Exposure time	Species	Value determination	Remark
Unknown							Data waiving	

### Conclusion

Not classified for carcinogenicity

### Reproductive toxicity

#### AQUASOLV

No (test) data on the mixture available

Judgement is based on the relevant ingredients

#### propan-2-ol

Category	Parameter	Method	Value	Exposure time	Species	Effect	Value determination	Remark
Developmental toxicity (Oral (stomach tube))	NOAEL	Equivalent to OECD 414	400 mg/kg bw/day	10 day(s)	Rat	Foetus (no effect)	Experimental value	
Maternal toxicity (Oral (stomach tube))	NOAEL	Equivalent to OECD 414	400 mg/kg bw/day	10 day(s)	Rat	No effect	Experimental value	
Effects on fertility (Oral (drinking water))	NOAEL	Equivalent to OECD 415	853 mg/kg bw/day		Rat (male / female)	No effect	Experimental value	

#### disodium metasilicate

Category	Parameter	Method	Value	Exposure time	Species	Effect	Value determination	Remark
Developmental toxicity (Oral (stomach tube))	NOAEL	Developmental toxicity study	> 200 mg/kg bw/day	2 day(s)	Mouse	No effect	Experimental value	
Maternal toxicity (Oral (stomach tube))	NOAEL	Developmental toxicity study	12.5 mg/kg bw/day	2 day(s)	Mouse	No effect	Experimental value	
Effects on fertility (Oral (drinking water))	NOAEL		> 159 mg/kg bw/day		Rat (female)	No effect	Experimental value	

#### 2-(2-butoxyethoxy)ethanol

Category	Parameter	Method	Value	Exposure time	Species	Effect	Value determination	Remark
Developmental toxicity (Oral (diet))	Dose level	Equivalent to OECD 414	633 mg/kg bw/day	21 days (gestation, daily)	Rat	No effect	Experimental value	
Maternal toxicity (Oral (diet))	Dose level	Equivalent to OECD 414	633 mg/kg bw/day	21 days (gestation, daily)	Rat	No effect	Experimental value	
Effects on fertility (Oral (drinking water))	NOAEL (P)	NTP continuous breeding protocol	720 mg/kg bw/day	14 week(s)	Mouse (male / female)	No effect	Experimental value	

#### tetrasodium ethylene diamine tetraacetate

Category	Parameter	Method	Value	Exposure time	Species	Effect	Value determination	Remark
Developmental toxicity (Oral (stomach tube))	NOAEL	OECD 414	30 mg/kg bw/day	23 days (gestation, daily)	Rabbit	No effect	Experimental value of similar product	
Maternal toxicity (Oral (stomach tube))	NOAEL	OECD 414	< 10 mg/kg bw/day	23 days (gestation, daily)	Rabbit	No effect	Experimental value of similar product	
Effects on fertility (Oral (diet))	NOAEL		≥ 250 mg/kg bw/day	2 year(s)	Rat (male / female)	No effect	Experimental value of similar product	

#### sodium hydroxide

Category	Parameter	Method	Value	Exposure time	Species	Effect	Value determination	Remark
Developmental toxicity							Data waiving	
Maternal toxicity							Data waiving	
Effects on fertility							Data waiving	

### Conclusion

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# AQUASOLV

Not classified for reprotoxic or developmental toxicity

## AQUASOLV

### Toxicity other effects

#### AQUASOLV

No (test)data on the mixture available

### Chronic effects from short and long-term exposure

#### AQUASOLV

No effects known.

### 11.2. Information on other hazards

No evidence of endocrine disrupting properties

## SECTION 12: Ecological information

### 12.1. Toxicity

#### AQUASOLV

No (test)data on the mixture available

Judgement of the mixture is based on the relevant ingredients

#### isotridecanol, ethoxylated

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	1 mg/l - 10 mg/l	96 h	Cyprinus carpio			Experimental value
Acute toxicity crustacea	EC50	OECD 202	1 mg/l - 10 mg/l	48 h	Daphnia sp.			Experimental value
Toxicity algae and other aquatic plants	IC50	OECD 201	1 mg/l - 10 mg/l	72 h	Desmodesmus subspicatus			Experimental value
Long-term toxicity aquatic crustacea	NOEC	OECD 202	> 1 mg/l	21 day(s)	Daphnia magna			Experimental value
Toxicity aquatic micro-organisms	EC10	DIN 38412-8	> 10000 mg/l	17 h	Activated sludge			Experimental value

#### propan-2-ol

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	Equivalent to OECD 203	9640 mg/l - 10000 mg/l	96 h	Pimephales promelas	Flow-through system	Fresh water	Experimental value; Lethal
Acute toxicity crustacea	LC50	Equivalent to OECD 202	> 10000 mg/l	24 h	Daphnia magna	Static system	Fresh water	Experimental value; Locomotor effect
Toxicity algae and other aquatic plants	Toxicity threshold		1800 mg/l	7 day(s)	Scenedesmus quadricauda	Static system	Fresh water	Experimental value; Toxicity test
Long-term toxicity fish	NOELR	Petrotox computer model	> 1000 mg/l	28 day(s)	Brachydanio rerio			Estimated value
Long-term toxicity aquatic crustacea	NOEC		141 mg/l	16 day(s)	Daphnia magna		Fresh water	Experimental value; Growth
Toxicity aquatic micro-organisms	Toxicity threshold	Equivalent to DIN 38412/8	1050 mg/l	16 h	Pseudomonas putida	Static system	Fresh water	Experimental value; Toxicity test
	EC50	ISO 8192	41676 mg/l	30 minutes	Activated sludge			Experimental value

#### disodium metasilicate

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	ISO 7346-1	210 mg/l	96 h	Danio rerio	Semi-static system	Fresh water	Experimental value
Acute toxicity crustacea	EC50	EU Method C.2	1700 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; GLP
Toxicity algae and other aquatic plants	EbC50	DIN 38412-9	207 mg/l	72 h	Desmodesmus subspicatus		Fresh water	Experimental value; GLP
Toxicity aquatic micro-organisms	EC0	DIN 38412-27	> 1000 mg/l	0.5 h	Pseudomonas putida		Fresh water	Experimental value
	EC50	OECD 209	> 100 mg/l	3 h	Activated sludge		Fresh water	Experimental value; GLP

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# AQUASOLV

## 2-(2-butoxyethoxy)ethanol

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	Equivalent to OECD 203	1300 mg/l	96 h	Lepomis macrochirus	Static system	Fresh water	Experimental value; Nominal concentration
Acute toxicity crustacea	EC50	EU Method C.2	> 100 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; Locomotor effect
Toxicity algae and other aquatic plants	ErC50	OECD 201	> 100 mg/l	96 h	Desmodesmus subspicatus	Static system	Fresh water	Experimental value; Nominal concentration
	NOEC	OECD 201	≥ 100 mg/l	96 h	Desmodesmus subspicatus	Static system	Fresh water	Experimental value; Growth rate
Long-term toxicity fish	ChV		369 mg/l		Pisces			QSAR
Toxicity aquatic micro-organisms	EC10	Equivalent to OECD 209	> 1995 mg/l	30 minutes	Activated sludge	Static system	Fresh water	Experimental value; Respiration

## tetrasodium ethylene diamine tetraacetate

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	> 100 mg/l	96 h	Oncorhynchus mykiss	Static system	Fresh water	Experimental value; Nominal concentration
Acute toxicity crustacea	EC50	OECD 202	> 114 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; GLP
Toxicity algae and other aquatic plants	ErC50	OECD 201	> 100 mg/l	72 h	Pseudokirchneriella subcapitata	Static system	Fresh water	Experimental value; Nominal concentration
	NOEC	OECD 201	79 mg/l	72 h	Pseudokirchneriella subcapitata	Static system	Fresh water	Experimental value; Growth rate
Long-term toxicity fish	NOEC	OECD 210	≥ 35 mg/l	35 day(s)	Danio rerio	Flow-through system	Fresh water	Experimental value; Nominal concentration
Long-term toxicity aquatic crustacea	NOEC	Equivalent to OECD 211	25 mg/l	21 day(s)	Daphnia magna	Semi-static system	Fresh water	Read-across; Nominal concentration
Toxicity aquatic micro-organisms	EC10	OECD 209	> 500 mg/l	30 minutes	Activated sludge	Static system	Fresh water	Read-across; Nominal concentration

## sodium hydroxide

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50		189 mg/l	48 h	Leuciscus idus		Fresh water	Experimental value
Acute toxicity crustacea	EC50		40 mg/l	48 h	Ceriodaphnia sp.			Experimental value; Locomotor effect

## Conclusion

Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008

## 12.2. Persistence and degradability

### isotridecanol, ethoxylated

#### Biodegradation water

Method	Value	Duration	Value determination
OECD 301B	> 60 %	28 day(s)	Experimental value

### propan-2-ol

#### Biodegradation water

Method	Value	Duration	Value determination
EU Method C.5	53 %; Oxygen consumption	5 day(s)	Experimental value

#### Phototransformation air (DT50 air)

Method	Value	Conc. OH-radicals	Value determination
AOPWIN v1.92	17.668 h	1.5E6 /cm <sup>3</sup>	Calculated value

## 2-(2-butoxyethoxy)ethanol

#### Biodegradation water

Method	Value	Duration	Value determination
OECD 301C	85 %; Oxygen consumption	28 day(s)	Experimental value

## tetrasodium ethylene diamine tetraacetate

#### Biodegradation water

Method	Value	Duration	Value determination
OECD 301D	2 %; Oxygen consumption	28 day(s)	Experimental value

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## Conclusion

### Water

The surfactant(s) is/are biodegradable according to Regulation (EC) No 648/2004

## 12.3. Bioaccumulative potential

### AQUASOLV

#### Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

isotridecanol, ethoxylated

#### Log Kow

Method	Remark	Value	Temperature	Value determination
		> 3		Literature study

propan-2-ol

#### BCF fishes

Parameter	Method	Value	Duration	Species	Value determination
BCF	BCFBAF v3.01	1015			Estimated value

#### Log Kow

Method	Remark	Value	Temperature	Value determination
		0.05	25 °C	Weight of evidence approach

disodium metasilicate

#### Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (inorganic)			

2-(2-butoxyethoxy)ethanol

#### Log Kow

Method	Remark	Value	Temperature	Value determination
OECD 117		1	20 °C	Experimental value

tetrasodium ethylene diamine tetraacetate

#### BCF fishes

Parameter	Method	Value	Duration	Species	Value determination
BCF	Equivalent to OECD 305	1.1 l/kg - 1.8 l/kg; Fresh weight	4 week(s)	Lepomis macrochirus	Experimental value

#### Log Kow

Method	Remark	Value	Temperature	Value determination
KOWWIN		-13	25 °C	QSAR

sodium hydroxide

#### Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (inorganic)			

## Conclusion

Does not contain bioaccumulative component(s)

## 12.4. Mobility in soil

isotridecanol, ethoxylated

#### (log) Koc

Parameter	Method	Value	Value determination
Koc		> 5000	Literature study
log Koc		> 3.7	Calculated value

propan-2-ol

#### (log) Koc

Parameter	Method	Value	Value determination
log Koc	SRC PCKOCWIN v2.0	0.185 - 0.541	Calculated value

2-(2-butoxyethoxy)ethanol

#### (log) Koc

Parameter	Method	Value	Value determination
log Koc	SRC PCKOCWIN v2.0	0.64 - 1.0	Calculated value

#### Percent distribution

Method	Fraction air	Fraction biota	Fraction sediment	Fraction soil	Fraction water	Value determination
Mackay level I	0.01 %	0 %	0.01 %	0.3 %	99.7 %	QSAR

tetrasodium ethylene diamine tetraacetate

#### (log) Koc

Parameter	Method	Value	Value determination
log Koc	SRC PCKOCWIN v2.0	2.5	QSAR

## Conclusion

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# AQUASOLV

Contains component(s) with potential for mobility in the soil

## 12.5. Results of PBT and vPvB assessment

Does not contain component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC) No 1907/2006.

## 12.6. Endocrine disrupting properties

No evidence of endocrine disrupting properties

## 12.7. Other adverse effects

### AQUASOLV

#### **Greenhouse gases**

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 2024/573)

#### **Ozone-depleting potential (ODP)**

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

#### **Water ecotoxicity pH**

pH shift

#### isotridecanol, ethoxylated

##### **Greenhouse gases**

Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 2024/573)

##### **Ozone-depleting potential (ODP)**

Not classified as dangerous for the ozone layer (Regulation (EC) No 2024/590)

#### propan-2-ol

##### **Greenhouse gases**

Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 2024/573)

##### **Groundwater**

Groundwater pollutant

#### disodium metasilicate

##### **Greenhouse gases**

Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 2024/573)

##### **Groundwater**

Groundwater pollutant

##### **Water ecotoxicity pH**

pH shift

#### 2-(2-butoxyethoxy)ethanol

##### **Greenhouse gases**

Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 2024/573)

##### **Groundwater**

Groundwater pollutant

#### tetrasodium ethylene diamine tetraacetate

##### **Groundwater**

Groundwater pollutant

#### sodium hydroxide

##### **Greenhouse gases**

Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 2024/573)

##### **Groundwater**

Groundwater pollutant

##### **Water ecotoxicity pH**

pH shift

## SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

### 13.1. Waste treatment methods

#### 13.1.1 Provisions relating to waste

##### **European Union**

Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.

Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).

20 01 29\* (separately collected fractions (except 15 01): detergents containing hazardous substances). Depending on branch of industry and production process, also other waste codes may be applicable.

#### 13.1.2 Disposal methods

Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste.

Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Do not discharge into drains or the environment. Dispose of at authorized waste collection point.

#### 13.1.3 Packaging/Container

##### **European Union**

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# AQUASOLV

Waste material code packaging (Directive 2008/98/EC).  
15 01 10\* (packaging containing residues of or contaminated by dangerous substances).

## SECTION 14: Transport information

### Road (ADR)

14.1. UN number or ID number	UN number	1719
14.2. UN proper shipping name	Proper shipping name	caustic alkali liquid, n.o.s. (disodium metasilicate)
14.3. Transport hazard class(es)	Hazard identification number	80
	Class	8
	Classification code	C5
14.4. Packing group	Packing group	III
	Labels	8
14.5. Environmental hazards	Environmentally hazardous substance mark	no
14.6. Special precautions for user	Special provisions	274
	Limited quantities	Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg (gross mass).

### Rail (RID)

14.1. UN number or ID number	UN number	1719
14.2. UN proper shipping name	Proper shipping name	caustic alkali liquid, n.o.s. (disodium metasilicate)
14.3. Transport hazard class(es)	Hazard identification number	80
	Class	8
	Classification code	C5
14.4. Packing group	Packing group	III
	Labels	8
14.5. Environmental hazards	Environmentally hazardous substance mark	no
14.6. Special precautions for user	Special provisions	274
	Limited quantities	Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg (gross mass).

### Inland waterways (ADN)

14.1. UN number or ID number	UN number/ID number	1719
14.2. UN proper shipping name	Proper shipping name	caustic alkali liquid, n.o.s. (disodium metasilicate)
14.3. Transport hazard class(es)	Class	8
	Classification code	C5
14.4. Packing group	Packing group	III
	Labels	8
14.5. Environmental hazards	Environmentally hazardous substance mark	no
14.6. Special precautions for user	Special provisions	274
	Limited quantities	Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg (gross mass).

### Sea (IMDG/IMSBC)

14.1. UN number or ID number	UN number	1719
14.2. UN proper shipping name	Proper shipping name	caustic alkali liquid, n.o.s. (disodium metasilicate)
14.3. Transport hazard class(es)	Class	8
14.4. Packing group	Packing group	III
	Labels	8
14.5. Environmental hazards		

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Marine pollutant	-
Environmentally hazardous substance mark	no
14.6. Special precautions for user	
Special provisions	223
Special provisions	274
Limited quantities	Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg (gross mass).
14.7. Maritime transport in bulk according to IMO instruments	
Annex II of MARPOL 73/78	Not applicable, based on available data

## Air (ICAO-TI/IATA-DGR)

14.1. UN number or ID number	
UN number/ID number	1719
14.2. UN proper shipping name	
Proper shipping name	caustic alkali liquid, n.o.s. (disodium metasilicate)
14.3. Transport hazard class(es)	
Class	8
14.4. Packing group	
Packing group	III
Labels	8
14.5. Environmental hazards	
Environmentally hazardous substance mark	no
14.6. Special precautions for user	
Special provisions	A3
Special provisions	A803
Passenger and cargo transport	
Limited quantities: maximum net quantity per packaging	1 L

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### European legislation:

VOC content Directive 2010/75/EU

VOC content	Remark
4.60 %	
86.62 g/l	

Directive 2012/18/EU (Seveso III)

Not subject to registration according to Directive 2012/18/EU (Seveso III)

Ingredients according to Regulation (EC) No 648/2004 and amendments

5-15% non-ionic surfactants, <5% EDTA and salts thereof

European drinking water standards (98/83/EC and 2020/2184)

#### disodium metasilicate

Parameter	Parametric value	Note	Reference
Pesticides	0.1 µg/l		Listed in Annex I, Part B, of Directive (EU) 2020/2184 on the quality of water intended for human consumption.
Pesticides — Total	0.5 µg/l		Listed in Annex I, Part B, of Directive (EU) 2020/2184 on the quality of water intended for human consumption.
Sodium	200 mg/l		Listed in Annex I, Part C, of Directive (EU) 2020/2184 on the quality of water intended for human consumption.

#### tetrasodium ethylene diamine tetraacetate

Parameter	Parametric value	Note	Reference
Sodium	200 mg/l		Listed in Annex I, Part C, of Directive (EU) 2020/2184 on the quality of water intended for human consumption.

#### sodium hydroxide

Parameter	Parametric value	Note	Reference
Sodium	200 mg/l		Listed in Annex I, Part C, of Directive (EU) 2020/2184 on the quality of water intended for human consumption.

REACH Annex XVII - Restriction

Contains component(s) subject to restrictions of Annex XVII of Regulation (EC) No 1907/2006: restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

	Designation of the substance, of the group of substances or of the mixture	Conditions of restriction
<ul style="list-style-type: none"> <li>· isotridecanol, ethoxylated</li> <li>· propan-2-ol</li> <li>· 2-(2-butoxyethoxy)ethanol</li> </ul>	Liquid substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: (a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A	1. Shall not be used in: — ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays, — tricks and jokes, — games for one or more participants, or any article intended to be used as such, even with ornamental aspects, 2. Articles not complying with paragraph 1 shall not be placed on the market.

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	<p>to F;                  (b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10;                  (c) hazard class 4.1;                  (d) hazard class 5.1.</p>	<p>3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:                  — can be used as fuel in decorative oil lamps for supply to the general public, and,                  — present an aspiration hazard and are labelled with H304,                  4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).                  5. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:                  a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: “Keep lamps filled with this liquid out of the reach of children”; and, by 1 December 2010, “Just a sip of lamp oil — or even sucking the wick of lamps — may lead to life-threatening lung damage”;                  b) grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: “Just a sip of grill lighter may lead to life threatening lung damage”;                  c) lamp oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.</p>
· propan-2-ol	<p>Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to that Regulation or not.</p>	<p>1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:                  — metallic glitter intended mainly for decoration,                  — artificial snow and frost,                  — “whoopee” cushions,                  — silly string aerosols,                  — imitation excrement,                  — horns for parties,                  — decorative flakes and foams,                  — artificial cobwebs,                  — stink bombs.                  2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with:                  “For professional users only”.                  3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/ 324/EEC.                  4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.</p>
· 2-(2-butoxyethoxy)ethanol	2-(2-butoxyethoxy)ethanol (DEGBE)	<p>1. Shall not be placed on the market for the first time after 27 June 2010, for supply to the general public, as a constituent of spray paints or spray cleaners in aerosol dispensers in concentrations equal to or greater than 3 % by weight.                  2. Spray paints and spray cleaners in aerosol dispensers containing DEGBE and not conforming to paragraph 1 shall not be placed on the market for supply to the general public after 27 December 2010.                  3. Without prejudice to other Community legislation concerning the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that paints other than spray paints containing DEGBE in concentrations equal to or greater than 3 % by weight of that are placed on the market for supply to the general public are visibly, legibly and indelibly marked by 27 December 2010 as follows: “Do not use in paint spraying equipment”.</p>
· propan-2-ol · disodium metasilicate · 2-(2-butoxyethoxy)ethanol · tetrasodium ethylene diamine tetraacetate · sodium hydroxide	<p>Substances falling within one or more of the following points:                  (a) substances classified as any of the following in Part 3 of Annex VI to Regulation (EC) No 1272/2008:                  — carcinogen category 1A, 1B or 2, or germ cell mutagen category 1A, 1B or 2, but excluding any such substances classified due to effects only following exposure by inhalation                  — reproductive toxicant category 1A, 1B or 2 but excluding any such substances classified due to effects only following exposure by inhalation                  — skin sensitiser category 1, 1A or 1B                  — skin corrosive category 1, 1A, 1B or 1C or skin irritant category 2                  — serious eye damage category 1 or eye irritant category 2                  (b) substances listed in Annex II to Regulation (EC) No 1223/2009 of the European Parliament and of the Council                  (c) substances listed in Annex IV to Regulation (EC) No 1223/2009 for which a condition is specified in at least one of the columns g, h and i of the table in that Annex (d) substances listed in Appendix 13 to this Annex.                  The ancillary requirements in paragraphs 7 and 8 of column 2 of this entry apply to all mixtures for use for tattooing purposes, whether or not they contain a substance</p>	<p>Mixtures for tattooing purposes are subject to the restrictions of Regulation (EU) 2020/2081</p>

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falling within points (a) to (d) of this column of this entry.

## National legislation Belgium

### AQUASOLV

No data available

#### propan-2-ol

Agents cancérigènes, mutagènes et reprotoxiques et aux agents possédant des propriétés perturbant le système endocrinien (Code du bien-être au travail, Livre VI, titre 2)	alcool isopropylique; VI.2.2.; Liste des procédés au cours desquels une substance ou un mélange se dégage; Procédé à l'acide fort dans la fabrication d'alcool isopropylique.
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## National legislation The Netherlands

### AQUASOLV

Waterbezwaarlijkheid	B (4); Algemene Beoordelingsmethodiek (ABM)
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#### 2-(2-butoxyethoxy)ethanol

Huidopname (wettelijk)	2-(2-Butoxyethoxy)ethanol; H
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## National legislation France

### AQUASOLV

No data available

## National legislation Germany

### AQUASOLV

Lagerklasse (TRGS510)	8 A: Brennbare ätzende Gefahrstoffe
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WGK	2; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017
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#### isotrìdecanol, ethoxylated

TA-Luft	5.2.5/I
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#### propan-2-ol

TA-Luft	5.2.5
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TRGS900 - Risiko der Fruchtschädigung	Propan-2-ol; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes nicht befürchtet zu werden
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#### disodium metasilicate

TA-Luft	5.2.1
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#### 2-(2-butoxyethoxy)ethanol

TA-Luft	5.2.5
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TRGS900 - Risiko der Fruchtschädigung	2-(2-Butoxyethoxy)ethanol; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes nicht befürchtet zu werden
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#### tetrasodium ethylene diamine tetraacetate

TA-Luft	5.2.1
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#### sodium hydroxide

TA-Luft	5.2.1
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## National legislation Austria

### AQUASOLV

No data available

## National legislation United Kingdom

### AQUASOLV

No data available

## Other relevant data

### AQUASOLV

No data available

#### propan-2-ol

IARC - classification	3; Isopropanol
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TLV - Carcinogen	2-propanol; A4
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## 15.2. Chemical safety assessment

No chemical safety assessment is required for a mixture.

## SECTION 16: Other information

### Full text of any H- and EUH-statements referred to under section 3:

H225 Highly flammable liquid and vapour.

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

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H373 May cause damage to organs (respiratory tract) through prolonged or repeated exposure if inhaled.

(*)	INTERNAL CLASSIFICATION BY BIG
ADI	Acceptable daily intake
AOEL	Acceptable operator exposure level
ATE	Acute Toxicity Estimate
BCF	Bioconcentration Factor
BEI	Biological Exposure Indices
CLP (EU-GHS)	Classification, labelling and packaging (Globally Harmonised System in Europe)
DMEL	Derived Minimal Effect Level
DNEL	Derived No Effect Level
EC10	Effect Concentration 10 %
EC50	Effect Concentration 50 %
ERC50	EC50 in terms of reduction of growth rate
GLP	Good Laboratory Practice
LC0	Lethal Concentration 0 %
LC50	Lethal Concentration 50 %
LD50	Lethal Dose 50 %
LOAEC/LOAEL	Lowest Observed Adverse Effect Concentration/Lowest Observed Adverse Effect Level
NOAEC/NOAEL	No Observed Adverse Effect Concentration/No Observed Adverse Effect Level
NOEC/NOEL	No Observed Effect Concentration/No Observed Effect Level
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent, Bioaccumulative & Toxic
PNEC	Predicted No Effect Concentration
STP	Sludge Treatment Process
vPvB	very Persistent & very Bioaccumulative

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