

# SAFETY DATA SHEET

Based upon Regulation (EC) No 1907/2006, as amended by Regulation (EU) No 2015/830



## CA CLEAN

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

#### 1.1. Product identifier

Product name : CA CLEAN  
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  
Cleansing product

##### 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

TEC7\*  
Industrielaan 5B  
B-2250 Olen  
☎ +32 14 85 97 37  
☎ +32 14 85 97 38  
info@tec7.be  
\*TEC7 is a registered trademark of Novatech International  
Industrielaan 5B

##### Manufacturer of the product

Novatech International N.V.  
Industrielaan 5B  
B-2250 Olen  
☎ +32 14 85 97 37  
☎ +32 14 85 97 38  
info@tec7.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 1C	H314: Causes severe skin burns and eye damage.

#### 2.2. Label elements



Contains: phosphoric acid; isotridecanol, ethoxylated (>1<2,5 mol EO).

**Signal word** Danger

##### H-statements

H314 Causes severe skin burns and eye damage.

##### P-statements

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P280 Wear protective gloves, protective clothing and eye protection/face protection.  
P260 Do not breathe vapours/mist.  
P264 Wash hands thoroughly after handling.  
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG)  
Technische Schoolstraat 43 A, B-2440 Geel  
<http://www.big.be>  
© BIG vzw

Reason for revision: 2.2;3.2;14

Revision number: 0400

Publication date: 2009-06-29

Date of revision: 2016-02-23

Product number: 48411

1 / 16

134-16433-480-en

# CA CLEAN

P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulation.  
**Supplemental information**  
EUH208 Contains: 2-butyne-1,4-diol. May produce an allergic reaction.

## 2.3. Other hazards

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
phosphoric acid 01-2119485924-24	7664-38-2 231-633-2	C<5%	Met. Corr. 1; H290 Skin Corr. 1B; H314	(1)(2)(8)(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
isotridecanol, ethoxylated (>1<2,5 mol EO) 01-2119976362-32	69011-36-5 500-241-6	C<5%	Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412	(1)(10)	Constituent
2-butyne-1,4-diol 01-2119489899-05	110-65-6 203-788-6	C<5 %	Acute Tox. 3; H331 Acute Tox. 3; H311 Acute Tox. 3; H301 STOT RE 2; H373 Skin Corr. 1B; H314 Skin Sens. 1; H317	(1)(2)(8)	Constituent

- (1) For H-statements in full: see heading 16  
(2) Substance with a Community workplace exposure limit  
(8) Specific concentration limits, see heading 16  
(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:

Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital. Never give alcohol to drink.

#### After inhalation:

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

#### After skin contact:

Wash immediately with lots of water (15 minutes)/shower. Remove clothing while washing. Do not remove clothing if it sticks to the skin. Cover wounds with sterile bandage. Consult a doctor/medical service. If burned surface > 10%: take victim to hospital.

#### After eye contact:

Rinse immediately with plenty of water for 15 minutes. Do not apply neutralizing agents. Take victim to an ophthalmologist.

#### After ingestion:

Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Do not give activated charcoal. Do not give chemical antidote. Immediately consult a doctor/medical service.

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

#### 4.2.1 Acute symptoms

##### After inhalation:

No effects known.

##### After skin contact:

Caustic burns/corrosion of the skin.

##### After eye contact:

Corrosion of the eye tissue.

##### After ingestion:

Gastrointestinal complaints. Diarrhoea. Vomiting. Headache. Lethargy.

#### 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.

Reason for revision: 2.2;3.2;14

Publication date: 2009-06-29

Date of revision: 2016-02-23

Revision number: 0400

Product number: 48411

2 / 16

# CA CLEAN

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### 5.1.1 Suitable extinguishing media:

Water spray. Polyvalent foam. Dry chemical powder. Carbon dioxide.

#### 5.1.2 Unsuitable extinguishing media:

No unsuitable extinguishing media known.

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

Upon combustion: formation of CO, CO<sub>2</sub> and small quantities of phosphorus oxides.

### 5.3. Advice for firefighters

#### 5.3.1 Instructions:

No specific fire-fighting instructions required.

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

Gloves. Face-shield. Corrosion-proof suit. Heat/fire exposure: compressed air/oxygen apparatus.

## SECTION 6: Accidental release measures

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

No naked flames.

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

See heading 8.2

#### 6.1.2 Protective equipment for emergency responders

Gloves. Face-shield. Corrosion-proof suit.

#### Suitable protective clothing

See heading 8.2

### 6.2. Environmental precautions

Contain leaking substance. Dam up the liquid spill.

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

Take up liquid spill into 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 heading 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. Keep container tightly closed. Remove contaminated clothing immediately.

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

#### 7.2.1 Safe storage requirements:

Storage temperature: <50 °C. Keep container in a well-ventilated place. Protect against frost. Keep locked up. Unauthorized persons are not admitted. Keep container tightly closed. Meet the legal requirements.

#### 7.2.2 Keep away from:

Heat sources, oxidizing agents, (strong) bases.

#### 7.2.3 Suitable packaging material:

No data available

#### 7.2.4 Non suitable packaging material:

No data available

### 7.3. Specific end use(s)

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

## 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.

##### **The Netherlands**

2-(2-butoxyethoxy)ethanol	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	7.4 ppm
---------------------------	---	---------

# CA CLEAN

2-(2-butoxyethoxy)ethanol	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)	15 ppm
	Short time value (Public occupational exposure limit value)	100 mg/m <sup>3</sup>
Fosforzuur	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	0.25 ppm
	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	1 mg/m <sup>3</sup>
	Short time value (Public occupational exposure limit value)	0.49 ppm
	Short time value (Public occupational exposure limit value)	2 mg/m <sup>3</sup>

## 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>
Orthophosphoric acid	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	1 mg/m <sup>3</sup>
	Short time value (Indicative occupational exposure limit value)	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>
Acide phosphorique	Time-weighted average exposure limit 8 h	1 mg/m <sup>3</sup>
	Short time value	2 mg/m <sup>3</sup>

## USA (TLV-ACGIH)

Diethylene glycol monobutyl ether	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	10 ppm (IFV)
Phosphoric acid	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	1 mg/m <sup>3</sup>
	Short time value (TLV - Adopted Value)	3 mg/m <sup>3</sup>

(IFV): Inhalable fraction and vapor

## Germany

2-(2-Butoxyethoxy)ethanol	Time-weighted average exposure limit 8 h (TRGS 900)	10 ppm
	Time-weighted average exposure limit 8 h (TRGS 900)	67 mg/m <sup>3</sup>
But-2-in-1,4-diol	Time-weighted average exposure limit 8 h (TRGS 900)	0.1 ppm
	Time-weighted average exposure limit 8 h (TRGS 900)	0.36 mg/m <sup>3</sup>
Orthophosphorsäure	Time-weighted average exposure limit 8 h (TRGS 900)	2 mg/m <sup>3</sup>

## France

2-(2-Butoxyéthoxy)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>
Acide phosphorique	Time-weighted average exposure limit 8 h (VRI: Valeur réglementaire indicative)	0.2 ppm
	Time-weighted average exposure limit 8 h (VRI: Valeur réglementaire indicative)	1 mg/m <sup>3</sup>
	Short time value (VRI: Valeur réglementaire indicative)	0.5 ppm
	Short time value (VRI: Valeur réglementaire indicative)	2 mg/m <sup>3</sup>

## 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>
Orthophosphoric acid	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	1 mg/m <sup>3</sup>
	Short time value (Workplace exposure limit (EH40/2005))	2 mg/m <sup>3</sup>

### b) National biological limit values

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

#### 8.1.2 Sampling methods

If applicable and available it will be listed below.

Reason for revision: 2.2;3.2;14

Publication date: 2009-06-29

Date of revision: 2016-02-23

Revision number: 0400

Product number: 48411

4 / 16

# CA CLEAN

NON-VOLATILE ACIDS (Phosphoric Acid)	NIOSH	7908
o-Phosphoric Acid	NIOSH	7903
Phosphoric Acid	OSHA	ID 111
Phosphoric Acid	OSHA	ID 165SG

### 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 DNEL/PNEC values

#### DNEL/DMEL - Workers

##### phosphoric acid

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term local effects inhalation	1 mg/m <sup>3</sup>	Test data of the pure substance
	Acute systemic effects inhalation	2 mg/m <sup>3</sup>	Test data of the pure substance

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

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	67.5 mg/m <sup>3</sup>	
	Long-term local effects inhalation	67.5 mg/m <sup>3</sup>	
	Acute local effects inhalation	101.2 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	83 mg/kg bw/day	

##### isotridecanol, ethoxylated (>1<2,5 mol EO)

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	294 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	2080 mg/kg bw/day	

##### 2-butyne-1,4-diol

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Acute systemic effects dermal	4 mg/kg bw/day	
	Acute systemic effects inhalation	2 mg/m <sup>3</sup>	
	Acute local effects inhalation	2 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	0.01 mg/kg bw/day	
	Long-term systemic effects inhalation	0.02 mg/m <sup>3</sup>	
	Long-term local effects inhalation	0.02 mg/m <sup>3</sup>	

#### DNEL/DMEL - General population

##### phosphoric acid

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term local effects inhalation	0.73 mg/m <sup>3</sup>	

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

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	40.5 mg/m <sup>3</sup>	
	Long-term local effects inhalation	40.5 mg/m <sup>3</sup>	
	Acute local effects inhalation	60.7 mg/m <sup>3</sup>	
	Long-term systemic effects oral	50 mg/kg bw/day	
	Long-term systemic effects oral	5 mg/kg bw/day	

##### isotridecanol, ethoxylated (>1<2,5 mol EO)

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	87 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	1250 mg/kg bw/day	
	Long-term systemic effects oral	25 mg/kg bw/day	

##### 2-butyne-1,4-diol

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Acute systemic effects dermal	2 mg/kg bw/day	
	Acute systemic effects inhalation	1 mg/m <sup>3</sup>	
	Acute local effects inhalation	1 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	0.008 mg/kg bw/day	
	Long-term systemic effects inhalation	0.01 mg/m <sup>3</sup>	
	Long-term systemic effects oral	0.008 mg/kg bw/day	
	Long-term local effects inhalation	0.01 mg/m <sup>3</sup>	

#### PNEC

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

Compartments	Value	Remark
Fresh water	1.1 mg/l	
Marine water	0.11 mg/l	
Aqua (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	
STP	200 mg/l	
Food	56 mg/kg food	

Reason for revision: 2.2;3.2;14

Publication date: 2009-06-29

Date of revision: 2016-02-23

Revision number: 0400

Product number: 48411

5 / 16

# CA CLEAN

isotridecanol, ethoxylated (>1<2,5 mol EO)

Compartments	Value	Remark
Fresh water	0.074 mg/l	
Salt water	0.0074 mg/l	
Aqua (intermittent releases)	0.015 mg/l	
STP	1.4 mg/l	
Fresh water sediment	0.604 mg/kg sediment dw	
Marine water sediment	0.0604 mg/kg sediment dw	
Soil	0.1 mg/kg soil dw	

2-butyn-1,4-diol

Compartments	Value	Remark
Fresh water	0.3 mg/l	
Marine water	0.03 mg/l	
Aqua (intermittent releases)	0.3 mg/l	
STP	1990 mg/l	
Fresh water sediment	1.09 mg/kg sediment dw	
Marine water sediment	0.11 mg/kg sediment dw	
Soil	0.043 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. Measure the concentration in the air regularly. 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. Keep container tightly closed. Do not eat, drink or smoke during work.

#### a) Respiratory protection:

Wear gas mask with filter type A if conc. in air > exposure limit.

#### b) Hand protection:

Gloves.

Materials	Breakthrough time	Thickness
viton	>480 minutes	0.7 mm

- materials (good resistance)

Viton.

#### c) Eye protection:

Face shield.

#### d) Skin protection:

Corrosion-proof clothing.

### 8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

## SECTION 9: Physical and chemical properties

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

Physical form	Liquid
Odour	Characteristic odour
Odour threshold	No data available
Colour	No data available on colour
Particle size	Not applicable (liquid)
Explosion limits	0.85 - 24.6 vol %
Flammability	Non-flammable
Log Kow	Not applicable (mixture)
Dynamic viscosity	1 mPa.s ; 20 °C
Kinematic viscosity	1 mm <sup>2</sup> /s ; 20 °C
Melting point	0 °C
Boiling point	100 °C - 261 °C
Flash point	No data available
Evaporation rate	0.3 ; butyl acetate
Relative vapour density	No data available
Vapour pressure	23 hPa ; 20 °C
Solubility	water ; Complete
Relative density	1.0 ; 20 °C
Decomposition temperature	No data available
Auto-ignition temperature	200 °C
Explosive properties	No chemical group associated with explosive properties

Reason for revision: 2.2;3.2;14

Publication date: 2009-06-29

Date of revision: 2016-02-23

Revision number: 0400

Product number: 48411

6 / 16

# CA CLEAN

Oxidising properties	No chemical group associated with oxidising properties
pH	1.2

## 9.2. Other information

Absolute density	1048 kg/m <sup>3</sup> ; 20 °C
------------------	--------------------------------

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Substance has acid reaction.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No data available.

### 10.4. Conditions to avoid

Keep away from naked flames/heat.

### 10.5. Incompatible materials

Oxidizing agents, (strong) bases.

### 10.6. Hazardous decomposition products

Upon combustion: formation of CO, CO<sub>2</sub> and small quantities of phosphorus oxides.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### 11.1.1 Test results

#### Acute toxicity

##### CA CLEAN

No (test) data on the mixture available

##### phosphoric acid

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	Equivalent to OECD 423	2600 mg/kg bw		Rat (female)	Experimental value	
Dermal	LD50		2740 mg/kg bw		Rabbit	Inconclusive, insufficient data	
Dermal	Dose level		> 2000 mg/kg bw	24 h	Rabbit	Inconclusive, insufficient data	85 % aqueous solution
Inhalation	LC50	Equivalent to OECD 403	3846 mg/m <sup>3</sup>	1 h	Rat (male)	Read-across	

##### 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		Mouse (male)	Experimental value	
Dermal	LD50	Equivalent to OECD 402	2764 mg/kg bw		Rabbit (male)	Experimental value	
Inhalation	IRT (inhalation risk test)	BASF test	> 29 ppm	2 h	Rat	Experimental value	

##### 2-butyne-1,4-diol

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	Equivalent to OECD 401	132 mg/kg bw		Rat (male)	Experimental value	
Oral	LD50	Equivalent to OECD 401	176 mg/kg bw		Rat (female)	Experimental value	
Dermal	LD50	OECD 402	659 mg/kg bw		Rat (male/female)	Experimental value	
Inhalation (aerosol)	LC50	OECD 403	0.69 mg/l air	4 h	Rat (male/female)	Experimental value	

Judgement is based on the relevant ingredients

#### Conclusion

Not classified for acute toxicity

#### Corrosion/irritation

##### CA CLEAN

Reason for revision: 2.2;3.2;14

Publication date: 2009-06-29

Date of revision: 2016-02-23

Revision number: 0400

Product number: 48411

7 / 16

# CA CLEAN

No (test)data on the mixture available

## phosphoric acid

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Corrosive	Equivalent to OECD 405			Rabbit	Inconclusive, insufficient data	75 % aqueous solution
Skin	Corrosive	Other	24 h	24; 72 hours	Rabbit	Experimental value	80 % aqueous solution

## 2-(2-butoxyethoxy)ethanol

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Highly irritating	OECD 405		24; 48; 72 hours	Rabbit	Weight of evidence	
Skin	Slightly irritating	OECD 404		24; 48; 72 hours	Rabbit	Experimental value	

## isotridecanol, ethoxylated (>1<2,5 mol EO)

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Serious eye damage	OECD 405	72 h	24; 48; 72 hours	Rabbit	Experimental value	
Skin	Irritating	OECD 404	4 h	24; 48; 72 hours	Rabbit	Experimental value	

## 2-butyne-1,4-diol

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Serious eye damage	OECD 405		1; 24; 48; 72 hours	Rabbit	Experimental value	Single treatment
Skin	Corrosive	OECD 404	4 h	1; 24; 48; 72 hours	Rabbit	Experimental value	

Classification is based on the pH

### **Conclusion**

Causes severe skin burns and eye damage.

### **Respiratory or skin sensitisation**

#### CA CLEAN

No (test)data on the mixture available

## phosphoric acid

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin						Data waiving	

## 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		24; 48 hours	Guinea pig (male/female)	Experimental value	

## 2-butyne-1,4-diol

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

Judgement is based on the relevant ingredients

### **Conclusion**

Not classified as sensitizing for skin

Not classified as sensitizing for inhalation

### **Specific target organ toxicity**

#### CA CLEAN

No (test)data on the mixture available

## phosphoric acid

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral (stomach tube)	NOAEL	OECD 422	250 mg/kg		No effect	6 weeks (daily)	Rat (male/female)	Experimental value
Dermal								Data waiving
Inhalation (aerosol)	Dose level		10.6 mg/m <sup>3</sup> air	Liver	Enlargement/affection of the liver		Rat	Inconclusive, insufficient data

Reason for revision: 2.2;3.2;14

Publication date: 2009-06-29

Date of revision: 2016-02-23

Revision number: 0400

Product number: 48411

8 / 16



# CA CLEAN

## 2-(2-butoxyethoxy)ethanol

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral	NOAEL	OECD 408	250 mg/kg bw/day		Overall effects	90 days (continuous)	Rat (male/female)	Experimental value
Dermal	NOAEL	Equivalent to OECD 411	< 200 mg/kg bw/day	Skin	Irritation	13 weeks (daily, 5 days/week)	Rat (male/female)	Experimental value
Inhalation	NOAEL	OECD 413	14 ppm	Lungs		90 day(s)	Rat (male/female)	Experimental value

## 2-butyne-1,4-diol

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral (stomach tube)	NOAEL	Equivalent to OECD 407	1 mg/kg bw/day			28 day(s)	Rat (male/female)	Experimental value
Oral (stomach tube)	LOAEL	Equivalent to OECD 407	10 mg/kg bw/day	Liver; spleen; kidneys		28 day(s)	Rat (male/female)	Experimental value
Inhalation	NOAEC systemic effects	OECD 412	25 mg/m <sup>3</sup> air		No effect	4 weeks (6h/day, 5 days/week)	Rat (male/female)	Experimental value
Inhalation	NOAEL local effects	OECD 412	0.5 mg/m <sup>3</sup> air		No effect	4 weeks (6h/day, 5 days/week)	Rat (male/female)	Experimental value

Judgement is based on the relevant ingredients

### Conclusion

Not classified for subchronic toxicity

### Mutagenicity (in vitro)

#### CA CLEAN

No (test) data on the mixture available

#### phosphoric acid

Result	Method	Test substrate	Effect	Value determination
Negative with metabolic activation, negative without metabolic activation	OECD 471	Bacteria (S.typhimurium)		Experimental value
Negative with metabolic activation, negative without metabolic activation	OECD 473	CHL/IU cells		Experimental value
Negative	Equivalent to OECD 476	Mouse (lymphoma L5178Y cells)		Experimental value

## 2-(2-butoxyethoxy)ethanol

Result	Method	Test substrate	Effect	Value determination
Negative	Equivalent to OECD 471	Bacteria (S.typhimurium)		Experimental value
Negative	Equivalent to OECD 476	Chinese hamster ovary (CHO)		Experimental value

## 2-butyne-1,4-diol

Result	Method	Test substrate	Effect	Value determination
Negative	OECD 473	Chinese hamster lung fibroblasts		Experimental value
Negative	OECD 471	Bacteria (S.typhimurium)		Experimental value

### Mutagenicity (in vivo)

#### CA CLEAN

No (test) data on the mixture available

#### phosphoric acid

Result	Method	Exposure time	Test substrate	Organ	Value determination
					Data waiving

## 2-(2-butoxyethoxy)ethanol

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative	Equivalent to OECD 475		Mouse (male/female)		Experimental value

## 2-butyne-1,4-diol

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative	OECD 474	24 h - 48 h	Mouse (male/female)		Experimental value

### Carcinogenicity

#### CA CLEAN

No (test) data on the mixture available

### Reproductive toxicity

#### CA CLEAN

Reason for revision: 2.2;3.2;14

Publication date: 2009-06-29

Date of revision: 2016-02-23

Revision number: 0400

Product number: 48411

9 / 16

# CA CLEAN

No (test)data on the mixture available

## phosphoric acid

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEL	Equivalent to OECD 414	≥ 410 mg/kg bw/day	10 days (gestation, daily)	Rat (female)	No effect		Read-across
Maternal toxicity	NOAEL	Equivalent to OECD 414	≥ 410 mg/kg bw/day	10 days (gestation, daily)	Rat (female)	No effect		Read-across
Effects on fertility	NOAEL (F1)	OECD 422	≥ 500 mg/kg bw/day	6 weeks (daily)	Rat (male/female)	No effect		Experimental value

## 2-(2-butoxyethoxy)ethanol

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEL	Equivalent to OECD 414	633 mg/kg bw/day	0 days (gestation, daily) - 20 days (gestation, daily)	Rat			Experimental value
Effects on fertility	NOAEL (P)	NTP continuous breeding protocol	720 mg/kg bw/day	14 week(s)	Mouse (male/female)	Body weight reduction		Read-across

## 2-butyne-1,4-diol

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEL	OECD 414	40 mg/kg bw/day		Rat (female)			Experimental value
Maternal toxicity	NOAEL	OECD 414	40 mg/kg bw/day		Rat (female)			Experimental value
Effects on fertility	NOAEL	OECD 415	40 mg/kg bw/day		Rat (male/female)			Experimental value

Judgement is based on the relevant ingredients

### Conclusion CMR

Not classified for carcinogenicity

Not classified for mutagenic or genotoxic toxicity

Not classified for reprotoxic or developmental toxicity

### Toxicity other effects

#### CA CLEAN

No (test)data on the mixture available

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

#### CA CLEAN

ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Skin rash/inflammation.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### CA CLEAN

No (test)data on the mixture available

## 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
Acute toxicity invertebrates	EC50	Equivalent to OECD 202	4950 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value
Toxicity algae and other aquatic plants	EC50	OECD 201	> 100 mg/l	96 h	Desmodesmus subspicatus	Static system	Fresh water	Experimental value
Toxicity aquatic micro-organisms	EC10	Equivalent to OECD 209	> 1995 mg/l	30 minutes	Activated sludge	Static system	Fresh water	Experimental value

Reason for revision: 2.2;3.2;14

Publication date: 2009-06-29

Date of revision: 2016-02-23

Revision number: 0400

Product number: 48411

10 / 16

# CA CLEAN

## isotridecanol, ethoxylated (>1<2,5 mol EO)

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LL50	EU Method C.1	2.5 mg/l	96 h	Danio rerio	Semi-static system	Fresh water	Read-across; GLP
Acute toxicity invertebrates	EC50	EU Method C.2	1.5 mg/l	48 h	Daphnia magna	Static system	Fresh water	Read-across; GLP
Toxicity algae and other aquatic plants	EL50	EU Method C.3	2.5 mg/l	72 h	Desmodesmus subspicatus	Static system	Fresh water	Read-across; GLP
	NOELR	EU Method C.3	1.7 mg/l	72 h	Desmodesmus subspicatus	Static system	Fresh water	Read-across; GLP
Long-term toxicity fish	EC20	Other	1.097 mg/l	30 day(s)	Pimephales promelas		Fresh water	QSAR; Lethal
Long-term toxicity aquatic invertebrates	EC20		0.74 mg/l	21 day(s)	Daphnia magna		Fresh water	QSAR

## 2-butyne-1,4-diol

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	Equivalent to OECD 203	53.6 mg/l	96 h	Pimephales promelas	Flow-through system	Fresh water	Experimental value
Acute toxicity invertebrates	EC50	EPA 660/3 - 75/009	26.8 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; Nominal concentration
Toxicity algae and other aquatic plants	ErC50	Equivalent to OECD 201	1058 mg/l	72 h	Scenedesmus subspicatus	Static system	Fresh water	Experimental value; Nominal concentration
Long-term toxicity fish								Data waiving
Long-term toxicity aquatic invertebrates	NOEC	OECD 211	15 mg/l	21 day(s)	Daphnia magna	Semi-static system	Fresh water	Experimental value; Nominal concentration
Toxicity aquatic micro-organisms	EC50	DIN 38412-8	3940 mg/l	17 h	Pseudomonas putida	Static system	Fresh water	Experimental value; Nominal concentration

Judgement is based on the relevant ingredients

### Conclusion

pH shift

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

## 12.2. Persistence and degradability

### 2-(2-butoxyethoxy)ethanol

#### Biodegradation water

Method	Value	Duration	Value determination
OECD 301C: Modified MITI Test (I)	> 80 %	28 day(s)	Experimental value

#### Phototransformation air (DT50 air)

Method	Value	Conc. OH-radicals	Value determination
AOPWIN	3.4 h	1500000 /cm <sup>3</sup>	Experimental value

### isotridecanol, ethoxylated (>1<2,5 mol EO)

#### Biodegradation water

Method	Value	Duration	Value determination
OECD 301B: CO2 Evolution Test	82 %	28 day(s)	Experimental value

### 2-butyne-1,4-diol

#### Biodegradation water

Method	Value	Duration	Value determination
OECD 301E: Modified OECD Screening Test	91 %	19 day(s)	Experimental value

#### Phototransformation air (DT50 air)

Method	Value	Conc. OH-radicals	Value determination
AOPWIN v1.92	3.795 h	0 /cm <sup>3</sup>	Calculated value

#### Half-life water (t1/2 water)

Method	Value	Primary degradation/mineralisation	Value determination
			Data waiving

### Conclusion

The surfactant(s) is/are biodegradable

## 12.3. Bioaccumulative potential

### CA CLEAN

#### Log Kow

Reason for revision: 2.2;3.2;14

Publication date: 2009-06-29

Date of revision: 2016-02-23

Revision number: 0400

Product number: 48411

11 / 16

# CA CLEAN

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

phosphoric acid

## Log Kow

Method	Remark	Value	Temperature	Value determination
	No data available			

2-(2-butoxyethoxy)ethanol

## Log Kow

Method	Remark	Value	Temperature	Value determination
Equivalent to OECD 107		1	20 °C	Test data

isotridecanol, ethoxylated (>1<2,5 mol EO)

## Log Kow

Method	Remark	Value	Temperature	Value determination
OECD 117		6.4	22 °C	Weight of evidence approach

2-butyne-1,4-diol

## BCF other aquatic organisms

Parameter	Method	Value	Duration	Species	Value determination
BCF		3.16			Calculated value

## Log Kow

Method	Remark	Value	Temperature	Value determination
OECD 107		-0.73	25 °C	Experimental value

## Conclusion

Contains bioaccumulative component(s)

## 12.4. Mobility in soil

2-(2-butoxyethoxy)ethanol

### Percent distribution

Method	Fraction air	Fraction biota	Fraction sediment	Fraction soil	Fraction water	Value determination
Mackay level I	0.01 %	0 %	0.01 %	0.32 %	99.66 %	QSAR

2-butyne-1,4-diol

### (log) Koc

Parameter	Method	Value	Value determination
log Koc	SRC PCKOCWIN v2.0	-0.302 - 0	Calculated value

### Volatility (Henry's Law constant H)

Value	Method	Temperature	Remark	Value determination
0.001 Pa.m <sup>3</sup> /mol	SRC HENRYWIN v3.20	25 °C		Calculated value

## Conclusion

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. Other adverse effects

### CA CLEAN

#### Global warming potential (GWP)

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014)

#### Ozone-depleting potential (ODP)

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

phosphoric acid

#### Air contamination

Air pollutant

2-(2-butoxyethoxy)ethanol

#### Ground water

Ground water pollutant

## 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

Reason for revision: 2.2;3.2;14

Publication date: 2009-06-29

Date of revision: 2016-02-23

Revision number: 0400

Product number: 48411

12 / 16

# CA CLEAN

Hazardous waste according to Regulation (EU) No 1357/2014.

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

Recycle/reuse. Neutralize. 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. Treat using the best available techniques before discharge into drains or the aquatic environment.

## 13.1.3 Packaging/Container

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

UN number	3264
-----------	------

#### 14.2. UN proper shipping name

Proper shipping name	Corrosive liquid, acidic, inorganic, n.o.s. (phosphoric acid)
----------------------	---

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

Hazard identification number	80
Class	8
Classification code	C1

#### 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)
Specific mention	Classified corrosive on grounds of extreme pH value

### Rail (RID)

#### 14.1. UN number

UN number	3264
-----------	------

#### 14.2. UN proper shipping name

Proper shipping name	Corrosive liquid, acidic, inorganic, n.o.s. (phosphoric acid)
----------------------	---

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

Hazard identification number	80
Class	8
Classification code	C1

#### 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)
Specific mention	Classified corrosive on grounds of extreme pH value

### Inland waterways (ADN)

#### 14.1. UN number

UN number	3264
-----------	------

#### 14.2. UN proper shipping name

Proper shipping name	Corrosive liquid, acidic, inorganic, n.o.s. (phosphoric acid)
----------------------	---

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

Class	8
Classification code	C1

#### 14.4. Packing group

Packing group	III
Labels	8

#### 14.5. Environmental hazards

Environmentally hazardous substance mark	no
--	----

# CA CLEAN

## 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)
Specific mention	Classified corrosive on grounds of extreme pH value

## Sea (IMDG/IMSBC)

### 14.1. UN number

UN number	3264
-----------	------

### 14.2. UN proper shipping name

Proper shipping name	Corrosive liquid, acidic, inorganic, n.o.s. (phosphoric acid)
----------------------	---

### 14.3. Transport hazard class(es)

Class	8
-------	---

### 14.4. Packing group

Packing group	III
Labels	8

### 14.5. Environmental hazards

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)
Specific mention	Classified corrosive on grounds of extreme pH value

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

Annex II of MARPOL 73/78	
--------------------------	--

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

### 14.1. UN number

UN number	3264
-----------	------

### 14.2. UN proper shipping name

Proper shipping name	Corrosive liquid, acidic, inorganic, n.o.s. (phosphoric acid)
----------------------	---

### 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
Specific mention	Classified corrosive on grounds of extreme pH value

## 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
0.19 %	
23.682 g/l	

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

<5% non-ionic surfactants, perfumes

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
· phosphoric acid · 2-(2-butoxyethoxy)ethanol · isotridecanol, ethoxylated (>1<2,5 mol EO)	Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008:	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

Reason for revision: 2.2;3.2;14

Publication date: 2009-06-29

Date of revision: 2016-02-23

Revision number: 0400

Product number: 48411

14 / 16

# CA CLEAN

	<p>(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 to F;</p> <p>(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;</p> <p>(c) hazard class 4.1;</p> <p>(d) hazard class 5.1.</p>	<p>on the market.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:</p> <p>— can be used as fuel in decorative oil lamps for supply to the general public, and,</p> <p>— present an aspiration hazard and are labelled with R65 or 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:</p> <p>a) lamp oils, labelled with R65 or 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”;</p> <p>b) grill lighter fluids, labelled with R65 or 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”;</p> <p>c) lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.6. No later than 1 June 2014, the Commission shall request the European Chemicals Agency to prepare a dossier, in accordance with Article 69 of the present Regulation with a view to ban, if appropriate, grill lighter fluids and fuel for decorative lamps, labelled R65 or H304, intended for supply to the general public.7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission.’</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>

## National legislation The Netherlands

### CA CLEAN

Waste identification (the Netherlands)	LWCA (the Netherlands): KGA category 03
Waterbezwaarlijkheid	11

## National legislation Germany

### CA CLEAN

WGK	1; Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 4)
-----	---

### phosphoric acid

Schwangerschaft Gruppe	C
MAK 8-Stunden-Mittelwert mg/m <sup>3</sup>	Phosphorsäure; 2 mg/m <sup>3</sup> ; gemessen als einatembare Fraktion (vgl. Abschn. Vd) S. 191)

### 2-(2-butoxyethoxy)ethanol

Schwangerschaft Gruppe	C
MAK 8-Stunden-Mittelwert ppm	Butyldiglykol; 10 ppm; MAK-Wert für die Summe der Luftkonzentrationen von Butyldiglykol und Butyldiglykolacetat.
MAK 8-Stunden-Mittelwert mg/m <sup>3</sup>	Butyldiglykol; 67 mg/m <sup>3</sup>
TA-Luft	5.2.5

### 2-butyne-1,4-diol

Schwangerschaft Gruppe	C
MAK 8-Stunden-Mittelwert ppm	2-Butin-1,4-diol; 0.1 ppm
MAK 8-Stunden-Mittelwert mg/m <sup>3</sup>	2-Butin-1,4-diol; 0.36 mg/m <sup>3</sup>
TA-Luft	5.2.5; I
	5.2.5

## National legislation France

### CA CLEAN

No data available

## National legislation Belgium

### CA CLEAN

No data available

Reason for revision: 2.2;3.2;14

Publication date: 2009-06-29

Date of revision: 2016-02-23

Revision number: 0400

Product number: 48411

15 / 16

# CA CLEAN

## Other relevant data

CA CLEAN

No data available

## 15.2. Chemical safety assessment

No chemical safety assessment is required.

## SECTION 16: Other information

### Full text of any H-statements referred to under headings 2 and 3:

H290 May be corrosive to metals.  
H301 Toxic if swallowed.  
H311 Toxic in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H331 Toxic if inhaled.  
H373 May cause damage to organs (liver, spleen, kidneys) through prolonged or repeated exposure.  
H412 Harmful to aquatic life with long lasting effects.

(\*) = INTERNAL CLASSIFICATION BY BIG

PBT-substances = persistent, bioaccumulative and toxic substances

CLP (EU-GHS) Classification, labelling and packaging (Globally Harmonised System in Europe)

### Specific concentration limits CLP

phosphoric acid ... %	C ≥ 25 %	Skin Corr. 1B; H314	CLP Annex VI (ATP 0)
	10 % ≤ C < 25 %	Skin Irrit. 2; H315	CLP Annex VI (ATP 0)
	10 % ≤ C < 25 %	Eye Irrit. 2; H319	CLP Annex VI (ATP 0)
	C ≥ 20 %	Met. Corr. 1; H290	ECHA
2-butyne-1,4-diol	C ≥ 50 %	Skin Corr. 1B; H314	CLP Annex VI (ATP 0)
	25 % ≤ C < 50 %	Skin Irrit. 2; H315	CLP Annex VI (ATP 0)
	25 % ≤ C < 50 %	Eye Irrit. 2; H319	CLP Annex VI (ATP 0)

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Old versions must be destroyed. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided and cannot be held liable for any changes by third parties. This safety data sheet is only to be used within the European Union, Switzerland, Iceland, Norway and Liechtenstein. Any use outside of this area is at your own risk. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement or when this is failing the general conditions of BIG. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult the mentioned agreement/conditions for details.

Reason for revision: 2.2;3.2;14

Publication date: 2009-06-29

Date of revision: 2016-02-23

Revision number: 0400

Product number: 48411

16 / 16