

# SAFETY DATA SHEET

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



## 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

##### 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 N.V.

##### Manufacturer of the product

Novatech International N.V.  
Industrielaan 5B  
B-2250 Olen  
☎ +32 14 85 97 37  
☎ +32 14 85 97 38  
info@novatech.be

#### 1.4. Emergency telephone number

24h/24h (Telephone advice: English, French, German, Dutch) :  
+32 14 58 45 45 (BIG)  
Ireland - Beaumont Hospital, Dublin (NPIC): +353 1 809 2166 (Public 8 am- 10 pm)  
Ireland - Beaumont Hospital, Dublin (NPIC): +353 1 809 2566 (Professionals)

### 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.
Eye Dam.	category 1	H318: Causes serious eye damage.

#### 2.2. Label elements



Contains: phosphoric acid; isotridecanol, ethoxylated.

**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.

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1 / 18

878-16433-073-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

Caution! Substance is absorbed through the skin

## 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
phosphoric acid 01-2119485924-24	7664-38-2 231-633-2	C≤5%	Met. Corr. 1; H290 Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Met. Corr. 1; H290: C≥20%, (ECHA) Skin Corr. 1B; H314: C≥25%, (ECHA) Skin Irrit. 2; H315: 10% ≤C<25%, (ECHA) Eye Irrit. 2; H319: 10% ≤C<25%, (ECHA)	(1)(2)(6)(10)	Constituent	
2-(2-butoxyethoxy)ethanol 01-2119475104-44	112-34-5 203-961-6	C≤3%	Eye Irrit. 2; H319	(1)(2)(10)	Constituent	
isotridecanol, ethoxylated	69011-36-5	C≤2%	Acute Tox. 4; H302 Eye Dam. 1; H318	(1)(10)	Constituent	
2-butyne-1,4-diol 01-2119489899-05	110-65-6 203-788-6	0.1% <C≤0.5%	Acute Tox. 3; H331 Acute Tox. 3; H311 Acute Tox. 3; H301 Skin Sens. 1; H317 STOT RE 2; H373 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Corr. 1B; H314: C≥50%, (CLP Annex VI (ATP 0)) Skin Irrit. 2; H315: 25% ≤C<50%, (CLP Annex VI (ATP 0)) Eye Irrit. 2; H319: 25% ≤C<50%, (CLP Annex VI (ATP 0))	(1)(2)(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.

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2 / 18

# CA CLEAN

## 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:

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

### 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: formation of CO, CO2 and small quantities of phosphorus oxides.

### 5.3. Advice for firefighters

#### 5.3.1 Instructions:

Use water moderately and if possible collect or contain it. Take account of toxic fire-fighting water. Heat exposure: dilute toxic gas/vapour with water spray. Take account of toxic/corrosive precipitation water.

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

Gloves (EN 374). Face shield (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: consider evacuation. 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). Face shield (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. 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 very strict hygiene - avoid contact. 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:

# CA CLEAN

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

## 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.

#### 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>
But-2-yne-1,4-diol	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	0.5 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>
But-2-yne-1,4-diol	Time-weighted average exposure limit 8 h	0.5 mg/m <sup>3</sup>

#### 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>
But-2-yn-1,4-diol	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	0.14 ppm
	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	0.5 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>

# CA CLEAN

## 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>
2-Butyne-1,4-diol	Time-weighted average exposure limit 8 h (VRI: Valeur réglementaire indicative)	0.5 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>

## 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)
	Summe aus Dampf und Aerosolen.	
But-2-in-1,4-diol	Time-weighted average exposure limit 8 h (TRGS 900)	0.1 ppm (2)
	Time-weighted average exposure limit 8 h (TRGS 900)	0.36 mg/m <sup>3</sup> (2)
	Summe aus Dampf und Aerosolen.	
Orthophosphorsäure	Time-weighted average exposure limit 8 h (TRGS 900)	2 mg/m <sup>3</sup> (3)

(1) UF: 1,5 (I)

(2) UF: 1 (I)

(3) Einatembare Fraktion; UF: 2 (I)

## Austria

But-2-in-1,4-diol	Tagesmittelwert (MAK)	0.14 ppm
	Tagesmittelwert (MAK)	0.5 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>
Phosphorsäure	Tagesmittelwert (MAK)	1 mg/m <sup>3</sup>
	Kurzzeitwert 15(Miw) 4x (MAK)	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>
But-2-yne-1,4-diol	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	0.5 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>

## Ireland

2-(2-Butoxyethoxy)ethanol	Time-weighted average exposure limit 8 h (Binding occupational exposure limit values)	10 ppm
	Time-weighted average exposure limit 8 h (Binding occupational exposure limit values)	67.5 mg/m <sup>3</sup>
	Short time value (Binding occupational exposure limit values)	12 ppm
	Short time value (Binding occupational exposure limit values)	101.2 mg/m <sup>3</sup>
But-2-yne-1,4-diol	Time-weighted average exposure limit 8 h (Binding occupational exposure limit values)	0.5 mg/m <sup>3</sup>
Orthophosphoric acid	Time-weighted average exposure limit 8 h (Binding occupational exposure limit values)	1 mg/m <sup>3</sup>
	Short time value (Binding occupational exposure limit values)	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 (1)
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>

(1) (IFV): Inhalable fraction and vapor

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5 / 18

# CA CLEAN

## b) National biological limit values

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

### 8.1.2 Sampling methods

Product name	Test	Number
Butyl Carbitol	OSHA	2095
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 Threshold values

#### DNEL/DMEL - Workers

##### phosphoric acid

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	10.7 mg/m <sup>3</sup>	Test data of the pure substance
	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 local effects inhalation	67.5 mg/m <sup>3</sup>	
	Acute local effects inhalation	101.2 mg/m <sup>3</sup>	

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

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	1.25 mg/m <sup>3</sup>	
	Acute systemic effects inhalation	100 mg/m <sup>3</sup>	
	Long-term local effects inhalation	0.5 mg/m <sup>3</sup>	
	Acute local effects inhalation	1 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	0.2 mg/kg bw/day	
	Acute systemic effects dermal	6.6 mg/kg bw/day	

#### DNEL/DMEL - General population

##### phosphoric acid

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	4.57 mg/m <sup>3</sup>	Test data of the pure substance
	Long-term local effects inhalation	0.36 mg/m <sup>3</sup>	Test data of the pure substance
	Long-term systemic effects oral	0.1 mg/kg bw/day	Test data of the pure substance

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

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

#### PNEC

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

Compartments	Value	Remark
Fresh water	0.015 mg/l	
Marine water	0.002 mg/l	
STP	134 mg/l	
Soil	0.05 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 very strict hygiene - avoid contact. Do not eat, drink or smoke during work.

#### a) Respiratory protection:

Full face mask with filter type A at conc. in air > exposure limit.

#### b) Hand protection:

Protective gloves against chemicals (EN 374).

Materials	Measured breakthrough time	Thickness	Protection index	Remark
viton	> 480 minutes	0.7 mm	Class 6	

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BIG number: 48411

6 / 18

# CA CLEAN

## c) Eye protection:

Face shield (EN 166).

## d) Skin 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	Yellow
Odour	Characteristic odour
Odour threshold	No data available in the literature
Melting point	0 °C
Boiling point	100 °C - 261 °C
Flammability	Not classified as flammable
Explosion limits	0.85 - 24.6 vol %
Flash point	No data available in the literature
Auto-ignition temperature	200 °C
Decomposition temperature	No data available in the literature
pH	1.2
Kinematic viscosity	1 mm <sup>2</sup> /s ; 40 °C
Dynamic viscosity	1 mPa.s ; 20 °C
Solubility	Water ; complete
Log Kow	Not applicable (mixture)
Vapour pressure	23 hPa ; 20 °C
Absolute density	1048 kg/m <sup>3</sup> ; 20 °C
Relative density	1.05 ; 20 °C
Relative vapour density	No data available in the literature
Particle size	Not applicable (liquid)

### 9.2. Other information

Evaporation rate	0.3 ; Butyl acetate
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Heating increases the fire hazard. Acid 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, (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 hazard classes as defined in Regulation (EC) No 1272/2008

#### 11.1.1 Test results

#### Acute toxicity

##### CA CLEAN

No (test)data on the mixture available

Judgement is based on the relevant ingredients

# CA CLEAN

## phosphoric acid

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	OECD 423	300 mg/kg bw - 2000 mg/kg bw		Rat (female)	Experimental value	Anhydrous form
Dermal	LD50		> 2000 mg/kg bw	24 h	Rabbit	Experimental value	85 % aqueous solution
Inhalation						Data waiving	

## 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	

## isotridecanol, ethoxylated

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

## 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 - 176 mg/kg bw		Rat (male / female)	Experimental value	
Dermal	LD50	OECD 402	659 mg/kg bw	24 h	Rat (male / female)	Experimental value	
Inhalation (aerosol)	LC50	OECD 403	0.69 mg/l air	4 h	Rat (male / female)	Experimental value	

## Conclusion

Not classified for acute toxicity

## Corrosion/irritation

### CA CLEAN

No (test)data on the mixture available

Classification is based on the pH

## phosphoric acid

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Serious eye damage	16 CFR 1500.42		24; 48; 72 hours	Rabbit	Experimental value	85 % aqueous solution
In vitro	Corrosive	OECD 431	3 minutes - 240 minutes		In vitro: SkinEthic Reconstituted epithelium model	Experimental value	85 % aqueous solution

## 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	

## isotridecanol, ethoxylated

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

## 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	

## Conclusion

Causes severe skin burns and eye damage.

Not classified as irritating to the respiratory system

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8 / 18



# CA CLEAN

## Respiratory or skin sensitisation

### CA CLEAN

No (test)data on the mixture available

Judgement is based on the relevant ingredients

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			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	

### 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

Judgement is based on the relevant ingredients

phosphoric acid

Route of exposure	Parameter	Method	Value	Organ/Effect	Exposure time	Species	Value determination	Remark
Oral (diet)	LOAEL	Subchronic toxicity test	155 mg/kg bw/day	Kidney (affection of the renal tissue)	90 day(s)	Rat (male / female)	Experimental value	Anhydrous form
Dermal							Data waiving	
Inhalation (aerosol)	Dose level		10.6 mg/m <sup>3</sup> air	Liver (enlargement /affection of the liver)		Rat	Experimental value	Anhydrous form

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 (no effect)	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	

2-butyne-1,4-diol

Route of exposure	Parameter	Method	Value	Organ/Effect	Exposure time	Species	Value determination	Remark
Oral (stomach tube)	NOAEL	Equivalent to OECD 407	1 mg/kg bw/day	No effect	28 day(s)	Rat (male / female)	Experimental value	
Oral (stomach tube)	LOAEL	Equivalent to OECD 407	10 mg/kg bw/day	Liver; spleen; kidneys (histopathology)	28 day(s)	Rat (male / female)	Experimental value	
Inhalation	NOAEC systemic effects	OECD 412	25 mg/m <sup>3</sup> air	No adverse systemic effects	4 weeks (6h / day, 5 days / week)	Rat (male / female)	Experimental value	Not applicable
Inhalation	NOAEC local effects	OECD 412	0.5 mg/m <sup>3</sup> air	Respiratory tract (no effect)	4 weeks (6h / day, 5 days / week)	Rat (male / female)	Experimental value	

### Conclusion

Not classified for subchronic toxicity

Reason for revision: NPIC

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BIG number: 48411

9 / 18

# CA CLEAN

## Mutagenicity (in vitro)

### CA CLEAN

No (test)data on the mixture available

Judgement is based on the relevant ingredients  
phosphoric acid

Result	Method	Test substrate	Effect	Value determination	Remark
Negative with metabolic activation, negative without metabolic activation	OECD 471	Bacteria (S. typhimurium and E. coli)	No effect	Experimental value	85 % aqueous solution
Negative with metabolic activation, negative without metabolic activation	OECD 473	Human lymphocytes	No effect	Experimental value	85 % aqueous solution

### 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	

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

Result	Method	Test substrate	Effect	Value determination	Remark
Negative	OECD 473	Chinese hamster lung fibroblasts (V79)		Experimental value	
Negative with metabolic activation, negative without metabolic activation	OECD 471	Bacteria (S.typhimurium)		Experimental value	

## Mutagenicity (in vivo)

### CA CLEAN

No (test)data on the mixture available

Judgement is based on the relevant ingredients  
phosphoric acid

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

### 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

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

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

### Conclusion

Not classified for mutagenic or genotoxic toxicity

## Carcinogenicity

### CA CLEAN

No (test)data on the mixture available

Judgement is based on the relevant ingredients  
phosphoric acid

Route of exposure	Parameter	Method	Value	Organ/Effect	Exposure time	Species	Value determination	Remark
				No carcinogenic effect			Expert judgement	Data not required

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

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

### Conclusion

Not classified for carcinogenicity

## Reproductive toxicity

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Date of revision: 2025-10-01

Revision number: 601

BIG number: 48411

10 / 18

# CA CLEAN

## CA CLEAN

No (test)data on the mixture available

Judgement is based on the relevant ingredients  
phosphoric acid

Category	Parameter	Method	Value	Exposure time	Species	Effect	Value determination	Remark
Developmental toxicity (Oral (stomach tube))	NOAEL	Equivalent to OECD 414	≥ 410 mg/kg bw/day	10 days (gestation, daily)	Rat (female)	No effect	Experimental value of similar product	
Maternal toxicity (Oral (stomach tube))	NOAEL	Equivalent to OECD 414	≥ 410 mg/kg bw/day	10 days (gestation, daily)	Rat	No effect	Experimental value of similar product	
Effects on fertility (Oral (stomach tube))	NOAEL	OECD 422	≥ 500 mg/kg bw/day	≥ 42 days (1x / day)	Rat (male / female)	No effect	Experimental value	Anhydrous form

## 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	

## 2-butyne-1,4-diol

Category	Parameter	Method	Value	Exposure time	Species	Effect	Value determination	Remark
Developmental toxicity (Oral (stomach tube))	NOAEL	OECD 414	40 mg/kg bw/day	10 days (1x / day)	Rat	No effect	Experimental value	
Maternal toxicity (Oral (stomach tube))	NOAEL	OECD 414	40 mg/kg bw/day	10 days (1x / day)	Rat	No effect	Experimental value	
Effects on fertility (Oral (drinking water))	NOAEL	OECD 415	40 mg/kg bw/day		Rat (male / female)	No effect	Experimental value	

## Conclusion

Not classified for reprotoxic or developmental toxicity

## Aspiration hazard

### CA CLEAN

Judgement is based on the relevant ingredients  
 Not classified for aspiration toxicity

## Toxicity other effects

### CA CLEAN

No (test)data on the mixture available

## Chronic effects from short and long-term exposure

### CA CLEAN

Skin rash/inflammation.

## 11.2. Information on other hazards

No evidence of endocrine disrupting properties

## SECTION 12: Ecological information

### 12.1. Toxicity

#### CA CLEAN

No (test)data on the mixture available

Judgement of the mixture is based on the relevant ingredients

# CA CLEAN

## phosphoric acid

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	TLm	Equivalent to OECD 203	138 ppm	96 h	Gambusia affinis	Static system	Fresh water	Experimental value; Pure substance
Acute toxicity crustacea	EC50	OECD 202	> 100 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; Pure substance
Toxicity algae and other aquatic plants	ErC50	OECD 201	> 100 mg/l	72 h	Desmodesmus subspicatus	Static system	Fresh water	Experimental value; Nominal concentration
	NOEC	OECD 201	100 mg/l	72 h	Desmodesmus subspicatus	Static system	Fresh water	Experimental value; Growth rate

## 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
Long-term toxicity fish	ChV	ECOSAR	370 mg/l	30 day(s)	Pisces		Fresh water	QSAR
Long-term toxicity aquatic crustacea	ChV	ECOSAR	139 mg/l		Invertebrata			QSAR
Toxicity aquatic micro-organisms	EC10	Equivalent to OECD 209	> 1995 mg/l	30 minutes	Activated sludge	Static system	Fresh water	Experimental value; Respiration

## 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

## 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 crustacea	EC50	EPA 660/3 - 75/009	26.8 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; Locomotor effect
Toxicity algae and other aquatic plants	ErC50	Equivalent to OECD 201	1058 mg/l	72 h	Desmodesmus subspicatus	Static system	Fresh water	Experimental value; Nominal concentration
	EC10	Equivalent to OECD 201	346 mg/l	72 h	Desmodesmus subspicatus	Static system	Fresh water	Experimental value; Growth rate
Long-term toxicity fish								Data waiving
Long-term toxicity aquatic crustacea	NOEC	OECD 211	15 mg/l	21 day(s)	Daphnia magna	Semi-static system	Fresh water	Experimental value; Reproduction
Toxicity aquatic micro-organisms	EC50	DIN 38412-8	3940 mg/l	17 h	Pseudomonas putida	Static system	Fresh water	Experimental value; Nominal concentration

## Conclusion

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	85 %; Oxygen consumption	28 day(s)	Experimental value

### isotridecanol, ethoxylated

#### Biodegradation water

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

Reason for revision: NPIC

Publication date: 2009-06-29

Date of revision: 2025-10-01

Revision number: 601

BIG number: 48411

12 / 18

# CA CLEAN

## 2-butyne-1,4-diol

### Biodegradation water

Method	Value	Duration	Value determination
OECD 301E	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

### Biodegradation soil

Method	Value	Duration	Value determination
			Data waiving

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

Method	Value	Primary degradation/mineralisation	Value determination
			Data waiving

## Conclusion

### Water

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

## 12.3. Bioaccumulative potential

### CA CLEAN

#### Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

#### phosphoric acid

#### Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

## 2-(2-butoxyethoxy)ethanol

#### Log Kow

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

## isotridecanol, ethoxylated

#### Log Kow

Method	Remark	Value	Temperature	Value determination
		> 3		Literature study

## 2-butyne-1,4-diol

### BCF fishes

Parameter	Method	Value	Duration	Species	Value determination
BCF	BCFBAF v3.01	3.162 l/kg; Fresh weight			Estimated value

#### Log Kow

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

## Conclusion

Does not contain bioaccumulative component(s)

## 12.4. Mobility in soil

### 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

## isotridecanol, ethoxylated

#### (log) Koc

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

## 2-butyne-1,4-diol

#### (log) Koc

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

## Conclusion

Contains component(s) that adsorb(s) into the soil

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Publication date: 2009-06-29

Date of revision: 2025-10-01

Revision number: 601

BIG number: 48411

13 / 18

# CA CLEAN

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

### CA CLEAN

#### 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 2024/590)

#### Water ecotoxicity pH

pH shift

#### phosphoric acid

##### 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)

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

##### 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)

##### Groundwater

Groundwater pollutant

#### 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)

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

##### 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)

## 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

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	3264
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#### 14.2. UN proper shipping name

Proper shipping name	corrosive liquid, acidic, inorganic, n.o.s. (phosphoric acid)
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#### 14.3. Transport hazard class(es)

Hazard identification number	80
Class	8

Reason for revision: NPIC

Publication date: 2009-06-29

Date of revision: 2025-10-01

Revision number: 601

BIG number: 48411

14 / 18

# CA CLEAN

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 or ID 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 or ID number	
UN number/ID 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
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 or ID 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. Maritime transport in bulk according to IMO instruments	

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Revision number: 601

BIG number: 48411

15 / 18

# CA CLEAN

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

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

Specific mention

Classified corrosive on grounds of extreme pH value

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
0.191 %	
23.682 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% non-ionic surfactants, perfumes

REACH Candidate list

Does not contain component(s) included in candidate list of substances of very high concern (SVHC) for authorisation (Article 59 of Regulation (EC) No 1907/2006)

REACH Annex XIV - Authorisation

Does not contain component(s) included in Annex XIV of Regulation (EC) No 1907/2006: list of substances subject to authorisation

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	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 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.	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. 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.
· 2-(2-butoxyethoxy)ethanol	2-(2-butoxyethoxy)ethanol (DEGBE)	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

Reason for revision: NPIC

Publication date: 2009-06-29

Date of revision: 2025-10-01

Revision number: 601

BIG number: 48411

16 / 18



# CA CLEAN

		<p>concentrations equal to or greater than 3 % by weight.</p> <p>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.</p> <p>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>
<ul style="list-style-type: none"> <li>phosphoric acid</li> <li>2-(2-butoxyethoxy)ethanol</li> <li>2-butyne-1,4-diol</li> </ul>	<p>Substances falling within one or more of the following points:</p> <p>(a) substances classified as any of the following in Part 3 of Annex VI to Regulation (EC) No 1272/2008:</p> <ul style="list-style-type: none"> <li>— 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</li> <li>— reproductive toxicant category 1A, 1B or 2 but excluding any such substances classified due to effects only following exposure by inhalation</li> <li>— skin sensitiser category 1, 1A or 1B</li> <li>— skin corrosive category 1, 1A, 1B or 1C or skin irritant category 2</li> <li>— serious eye damage category 1 or eye irritant category 2</li> </ul> <p>(b) substances listed in Annex II to Regulation (EC) No 1223/2009 of the European Parliament and of the Council</p> <p>(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.</p> <p>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 falling within points (a) to (d) of this column of this entry.</p>	<p>Mixtures for tattooing purposes are subject to the restrictions of Regulation (EU) 2020/2081</p>

## National legislation Belgium

### CA CLEAN

No data available

## National legislation The Netherlands

### CA CLEAN

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

### CA CLEAN

No data available

## National legislation Germany

### CA CLEAN

Lagerklasse (TRGS510)	8 A: Brennbare ätzende Gefahrstoffe
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WGK	1; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017
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### phosphoric acid

TRGS900 - Risiko der Fruchtschädigung	Orthophosphorsäure; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes nicht befürchtet zu werden
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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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### isotridecanol, ethoxylated

TA-Luft	5.2.5
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### 2-butyne-1,4-diol

TA-Luft	5.2.5/I
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TRGS900 - Risiko der Fruchtschädigung	But-2-in-1,4-diol; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes nicht befürchtet zu werden
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Sensibilisierende Stoffe	But-2-in-1,4-diol; Sh; Hautsensibilisierende Stoffe
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Hautresorptive Stoffe	But-2-in-1,4-diol; H; Hautresorptiv
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## National legislation Austria

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17 / 18

# CA CLEAN

## CA CLEAN

No data available

## 2-butyne-1,4-diol

Gefahr der Sensibilisierung der Haut	But-2-in-1,4-diol; Sh
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## National legislation United Kingdom

### CA CLEAN

No data available

## National legislation Ireland

### CA CLEAN

No data available

## Other relevant data

### CA CLEAN

No data available

## 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:

H290 May be corrosive to metals.  
H301 Toxic if swallowed.  
H302 Harmful if swallowed.  
H311 Toxic in contact with skin.  
H314 Causes severe skin burns and eye damage.  
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.  
EUH208 Contains a sensitising substance. May produce an allergic reaction.

(*)	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

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. 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.

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18 / 18