

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

#### 1.1. Product identifier

Product form : Mixture  
Trade name : Spray booth protect pro  
UFI : A9WK-NUOE-Y9AV-SMP2  
Product code : CBP PRO  
Product group : Blend

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

##### 1.2.1. Relevant identified uses

No additional information available

##### 1.2.2. Uses advised against

No additional information available

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

Chemicar Europe NV  
Baarbeek, 2  
2070 Zwijndrecht  
T +32 (0) 3 234 87 80 - F +32 (0) 3 234 87 89  
[info@chemicar.eu](mailto:info@chemicar.eu)

#### 1.4. Emergency telephone number

Emergency number : +32 (0) 3 760 08 09

### SECTION 2: Hazards identification

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

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin sensitisation, Category 1 H317

Hazardous to the aquatic environment — Chronic Hazard, Category 3 H412

Full text of H and EUH statements: see section 16

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) : 

GHS07

Signal word (CLP) : Warning  
Contains : reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)  
Hazard statements (CLP) : H317 - May cause an allergic skin reaction.  
H412 - Harmful to aquatic life with long lasting effects.  
Precautionary statements (CLP) : P362+P364 - Take off contaminated clothing and wash it before reuse.  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.  
P302+P352 - IF ON SKIN: Wash with plenty of plenty of water and soap.  
P321 - Specific treatment (see information on this label).  
P273 - Avoid release to the environment.

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P280 - Wear protective gloves, protective clothing and eye protection/face protection..

### Nordic countries regulation

#### Denmark

MAL code : 2-1

### 2.3. Other hazards

Other hazards which do not result in classification : None under normal conditions.

PBT: not relevant – no registration required

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether	CAS-No.: 112-34-5 EC-No.: 203-961-6 EC Index-No.: 603-096-00-8	1 – 5	Eye Irrit. 2, H319
DIPROPYLENE GLYCOL	CAS-No.: 25265-71-8 EC-No.: 246-770-3	> 1	Not classified
GLYCERIN	CAS-No.: 56-81-5 EC-No.: 200-289-5	> 1	Not classified
sucrose	CAS-No.: 57-50-1 EC-No.: 200-334-9	> 1	Not classified
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	CAS-No.: 55965-84-9 EC Index-No.: 613-167-00-5	≥ 0.01	Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Oral), H301 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

### Specific concentration limits:

Name	Product identifier	Specific concentration limits
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	CAS-No.: 55965-84-9 EC Index-No.: 613-167-00-5	( 0.0015 ≤C < 100) Skin Sens. 1, H317 ( 0.06 ≤C < 0.6) Skin Irrit. 2, H315 ( 0.06 ≤C < 0.6) Eye Irrit. 2, H319 ( 0.6 ≤C < 100) Skin Corr. 1B, H314

Full text of H and EUH statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Get medical advice/attention if you feel unwell. Keep victim under observation. Check the vital functions. Emergency number.

First-aid measures after inhalation : Allow affected person to breathe fresh air. Get medical advice/attention.

First-aid measures after skin contact : Wash with plenty of water/.... If skin irritation or rash occurs: Get medical advice/attention.

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First-aid measures after eye contact	: Rinse immediately with plenty of water. If eye irritation persists: Get medical advice/attention. Remove contact lenses, if present and easy to do. Continue rinsing.
First-aid measures after ingestion	: Rinse mouth. If you feel unwell, seek medical advice. Immediately call a POISON CENTER/doctor.

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

Symptoms/effects after inhalation	: None under normal use.
Symptoms/effects after skin contact	: None under normal conditions.
Symptoms/effects after eye contact	: None under normal conditions.
Symptoms/effects after ingestion	: None under normal conditions.

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

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Alcohol resistant foam. Dry chemical. Carbon dioxide. Water spray or fog.
Unsuitable extinguishing media	: Do not use a heavy water stream.

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

Hazardous decomposition products in case of fire	: Carbon dioxide. Carbon monoxide. At high temperature may liberate toxic gases.
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### 5.3. Advice for firefighters

Protection during firefighting	: Wear gloves according to EN374 resistant to the solvent(s) in use. Use eye protection according to EN 166. protective clothing. EN 14605. EN 13034. full face mask (DIN EN 136). EN 137.
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## SECTION 6: Accidental release measures

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

General measures	: No open flames. No smoking.
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#### 6.1.1. For non-emergency personnel

Protective equipment	: 8.2.
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#### 6.1.2. For emergency responders

Protective equipment	: EN 166. face shield. 8.2. EN 374. Gloves. EN 14605. protective clothing.
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### 6.2. Environmental precautions

Avoid release to the environment. Dike for recovery or absorb with appropriate material.

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

Methods for cleaning up	: Collect spillage. Take up liquid spill into inert absorbent material. To clean the floor and all objects contaminated by this material, use plenty of water. Wash contaminated clothing before reuse. Clean contaminated surfaces with an excess of water.
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### 6.4. Reference to other sections

SECTION 13.

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Additional hazards when processed : Keep away from any flames or sparking source. Observe strict hygiene. Avoid any direct contact with the product. Take off immediately all contaminated clothing. Keep containers closed. Do not discharge the waste into the drain.

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

Incompatible materials : Heat sources. Oxidising agents. Strong acids. Keep away from (strong) bases.  
Storage temperature : 5 – 25 °C  
Storage area : Store away from heat. Store in a well-ventilated place. Protect against frost.  
Special rules on packaging : Suitable packing materials. Plastic. Unsuitable materials. Metal.  
Packaging materials : Do not store in corrodable metal.

#### 7.3. Specific end use(s)

f 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 National occupational exposure and biological limit values

EU		
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	10 ppm
	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	67.5 mg/m <sup>3</sup>
	Short time value (Indicative occupational exposure limit value)	15 ppm
	Short time value (Indicative occupational exposure limit value)	101.2 mg/m <sup>3</sup>
Belgium		
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether	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>
Glycérine (brouillard)	Time-weighted average exposure limit 8 h	10 mg/m <sup>3</sup>
Saccharose	Time-weighted average exposure limit 8 h	10 mg/m <sup>3</sup>
The Netherlands		
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether	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)	15 ppm
	Short time value (Public occupational exposure limit value)	10 mg/m <sup>3</sup>
France		
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether	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>

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EU		
	Short time value (VRI: valeur réglementaire indicative)	15 ppm
	Short time value (VRI: Valeur réglementaire indicative)	101.2 mg/m <sup>3</sup>
Glycérine (aérosols de)	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative)	10 mg/m <sup>3</sup>
Saccharose	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative)	10 mg/m <sup>3</sup>
Germany		
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether	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>
Glycerin	Short time value (Public occupational exposure limit value)	15 ppm
Oxydipropanol (Dipropylenglykol)	Short time value (Public occupational exposure limit value)	10 mg/m <sup>3</sup>
Austria		
5-Chlor-2-methyl-2,3- dihydroisothiazol-3-on und 2-Methyl-2,3-di-hydroisothiazol- 3-on (Gemisch im Verhältnis 3:1)	Tagesmittelwert (MAK)	0.05 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>
UK		
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether	Time-weighted average exposure limit 8 h (Workplace exposure limit EH 40/2005)	10 ppm
	Time-weighted average exposure limit 8 h (Workplace exposure limit EH 40/2005)	67.5 mg/m <sup>3</sup>
	Short time value (Workplace exposure limit EH 40/2005)	15 ppm
	Short time value (Workplce exposure limit (EH 40/2005)	101.2 mg/m <sup>3</sup>
Glyrecol, mist	Time-weighted average exposure limit 8 h (Workplace exposure limit EH 40/2005)	10 mg/m <sup>3</sup>
Sucrose	Time-weighted average exposure limit 8 h (Workplace exposure limit EH 40/2005)	10 mg/m <sup>3</sup>
	Short time value (Workplace exposure limit (EH40/2005))	20 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)
Sucrose	Time-weighted average exposure limit 8 h (TLV – Adopted value)	10 mg/m <sup>3</sup>

### 8.1.2. Recommended monitoring procedures

Product name		
Butyl Carbitol	OSHA	2095
Glycerin Mist (Partuclates)	NIOSH	0600

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### 8.1.3. Air contaminants formed

No additional information available

### 8.1.4. DNEL and PNEC

DNEL/DMEL - Workers			
Oxydipropanol			
Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects dermal	84 mg/kg bw/day	
	Long-term systemic effects inhalation	238 mg/m <sup>3</sup>	
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 systemic effects inhalation	101.2 mg/m <sup>3</sup>	
glycerol			
Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term local effects inhalation	56 mg/m <sup>3</sup>	
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)			
Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term local effects inhalation	0.02 mg/m <sup>3</sup>	
	Acute local effects inhalation	0.04 mg/m <sup>3</sup>	

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PNEC		
<b>Oxydipropanol</b>		
Compartments	Value	Remark
Fresh water	0.1 mg/l	
Marine water	0.01 mg/l	
Aqua (intermittent releases)	1 mg/l	
Fresh water sediment	0.238 mg/kg sediment dw	
Marine water sediment	0.0238 mg/kg sediment dw	
Soil	0.0253 mg/kg soil dw	
STP	1000 mg/l	
Oral	313 mg/kg food	
<b>2-(2-butoxyethoxy)ethanol</b>		
Compartments	Value	Remark
Fresh water	1.1 mg/l	
Marine water	0.11 mg/l	
Fresh water sediment (intermittent releases)	11 mg/l	
Fresh water sediment	4.4 mg/kg sediment dw	
Marine water sediment	0.44 mg/kg sediment dw	
Soil	0.32 mg/kg soil dw	
Oral	56 mg/kg food	
<b>glycerol</b>		
Compartments	Value	Remark
Fresh water	0.885 mg/l	
Fresh water (intermettent releases)	8.85 mg/l	
Marine water	0.088 mg/l	
STP	1000 mg/l	
Fresh water sediment	3.3 mg/kg sediment dw	
Marine water sediment	0.33 mg/kg sediment dw	
Soil	0.141 mg/kg soil dw	
<b>reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)</b>		
Compartments	Value	Remark
Fresh water	3.39 µg/l	
Fresh water (intermittent releases)	3.39 µg/l	
Marine water	3.39 µg/l	
Marine water (intermittent releases)	3.39 µg/l	
STP	0.23 mg/l	
Fresh water sediment	0.027 mg/kg sediment dw	
Marine water sediment	0.027 mg/kg sediment dw	

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Soil	0.01 mg/kg soil dw	
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### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Keep away from naked flames/heat. Carry out operations in the open/under local exhaust/ventilation or with respiratory protection. When using do not eat, drink or smoke.

### 8.2.2. Personal protection equipment

#### 8.2.2.1. Eye and face protection

##### Eye protection:

Wear security glasses which protect from splashes. None under normal conditions

Eye protection			
Type	Field of application	Characteristics	Standard
Face shield			EN 166

#### 8.2.2.2. Skin protection

##### Skin and body protection:

Wear suitable protective clothing

Skin and body protection	
Type	Standard
	EN 14605, EN 13034

##### Hand protection:

Protective gloves

Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Chemical resistant gloves (according to European standard EN 374 or equivalent)					

##### Other skin protection

##### Materials for protective clothing:

Wear suitable protective clothing

#### 8.2.2.3. Respiratory protection

##### Respiratory protection:

Gas mask with filter type

Respiratory protection			
Device	Filter type	Condition	Standard
	Type A - High-boiling (>65 °C) organic compounds	If conc. in air > exposure limit	



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### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

6.2. 6.3. For further information refer to section 13.

## SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Colour	: white. light yellow.
Odour	: slight.
Odour threshold	: No data available
pH	: 8 – 9
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 0 °C
Freezing point	: No data available
Boiling point	: > 100
Flash point	: > 100 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Flammable, Non flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 1.1
Density	: 1060 kg/m <sup>3</sup>
Solubility	: Miscible. soluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 500 – 1500 mPa·s 40°C
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

### 9.2. Other information

VOC content : < 1 %

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Heating may cause a fire.

### 10.2. Chemical stability

No additional information available

### 10.3. Possibility of hazardous reactions

Reacts vigorously with strong oxidizers and acids.

### 10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

### 10.5. Incompatible materials

Oxidizing agent. Acids. Strong bases.

### 10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide.

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### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

#### DIPROPYLENE GLYCOL (25265-71-8)

LD50 oral rat (male/female)	> 5000 mg/kg body weight Animal: rat, Guideline: OECD 401 (Acute Oral Toxicity)
LD50 dermal rabbit (male/female)	> Animal: rabbit, Guideline: OECD 402 (Acute Dermal Toxicity); experimental value
LC50 Inhalation - Rat (male/female)	> 2,34 mg/l air Animal: rat, Guideline: OECD 403

#### 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (112-34-5)

LD50 oral mouse (male)	2410 - 5530 mg/kg body weight; OECD 401; experimental value
LD50 dermal rabbit (male)	2764 mg/kg body weight Animal: rabbit, Animal sex: male, Guideline: OECD 402; experimental value
LC50 Inhalation - Rat [ppm].	> 29 ppm; 2 h - BASF test; experimental value

#### GLYCERIN (56-81-5)

LD50 oral rat	27200 mg/kg body weight Animal: rat, Animal sex: female; experimental value
LD50 dermal	56750 ml/kg guinea pig - 4 days; experimental value
LC50 Inhalation - Rat	> 2,75 mg/l 4 h; male; experimental value; converted value

#### sucrose (57-50-1)

LD50 oral rat	29700 ml/kg ; Literature study
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#### reaction mass (3:1) of 5-chloro-2-methyl-2H-isothiazole-3-one and 2-methyl-2H-isothiazole-3-one (55965-84-9)

LD50 oral	66 mg/kg body weight; Experimental value - Rat (male/female) - OECD 401
LD50 dermal rat	> 141 mg/kg body weight; Experimental value - (male/female) OECD 402 - 24 hours
LC50 Inhalation - Rat	0,17 mg/l 4 hours - experimental value - OECD 403; male/female

Skin corrosion/irritation : Not classified

#### DIPROPYLENE GLYCOL (25265-71-8)

Eye, Non-irritant, Rabbit	experimental (24; 48; 72 hours, (OECD 405 method))
Skin, Non-irritating, experimental, rabbit	(24; 48; 72 hours, (OECD 404 method))
Skin, Non-irritating, experimental, human	(24 hours, patch test)

#### 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (112-34-5)

Eye, Very irritating, rabbit	experimental (72 hours, (OECD 405 method), single treatment with flush)
Skin; Slightly irritant, rabbit	experimental (1 hour, (OECD 404 method))

#### GLYCERIN (56-81-5)

Eye; Non-irritating, rabbit	experimental 1; 24; 72 (hours, dradis test, single treatment)
Skin, Non-irritating, experimental, rabbit	(24 h)

#### sucrose (57-50-1)

Eye; Non-irritating	literature review
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<b>sucrose (57-50-1)</b>	
Skin; Non-irritating	literature review
<b>reaction mass (3:1) of 5-chloro-2-methyl-2H-isothiazole-3-one and 2-methyl-2H-isothiazole-3-one (55965-84-9)</b>	
Eye; likely to cause serious eye damage, rabbit	experimental (7; 14 days 1; 24; 48; 72 hours, (OECD 405 method), aqueous solution)
Skin, Caustic, Rabbit	experimental (4 hours, (OECD 404 method), aqueous solution)

Irritation of the skin : Not classified as irritating to the skin  
Irritation to the eyes : Not classified as irritating to the eyes  
Irritation of the airways : Not classified as harmful to the respiratory system

<b>DIPROPYLENE GLYCOL (25265-71-8)</b>	
Respiratory tract/skin irritation; unlikely to cause skin irritation, guinea pig (male/female)	experimental (24; 48; 72 hours, (OECD 406 method))
Irritation of the respiratory tract/skin; Likely not to irritate the skin, human	female, male (patch test, experimental)
<b>2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (112-34-5)</b>	
Irritation of the respiratory tract/skin: Probably not sensitizing, Skin, guinea pig (male/female)	experimental (OECD 406 method)
<b>GLYCERIN (56-81-5)</b>	
Irritation of the respiratory tract/skin; Likely not to irritate the skin, human	Practical experience/observations in humans (experimental)
<b>reaction mass (3:1) of 5-chloro-2-methyl-2H-isothiazole-3-one and 2-methyl-2H-isothiazole-3-one (55965-84-9)</b>	
Respiratory tract irritation / skin sensitisation, guinea pig (male/female)	(experimentally, (OECD 406 method))

Conclusion: May cause allergic skin reaction  
Not classified as harmful to the respiratory system

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<b>DIPROPYLENE GLYCOL (25265-71-8)</b>	
NOAEL (oral, rat ; male/female)	470 mg/kg body weight OECD 453 - liver - biochemical changes - time of exposure: 105 weeks
NOAEL (inhalation)	(Not relevant)
<b>2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (112-34-5)</b>	
NOAEL (oral, rat)	250 mg/kg body weight (drinking water) ; OECD 408 ; no effect; 90 days (continuous); male/female; experimental value
NOAEL Local effects (dermal, rat, male)	< 200 mg/kg body weight local effects; EPA TSCA consent order < not irritating; 13 weeks (daily, 5 days/week); male/female; experimental value
NOAEL (dermal, rat, male, female)	2000 mg/kg body weight; systemic effects; EPA OTS 798,6050;13 weeks (daily, 5 days/week); experimental value
NOAL (inhalation aerosol; rat male/female)	94 mg/m3 air; OECD 413; lungs; no effect; 90 days (6h/day); experimental value
<b>GLYCERIN (56-81-5)</b>	
NOAEL (oral, rat)	8000 mg/kg bw; (diet); Equivalent to OECD 452; No effect; 2 year(s); rat (male/female); experimental value
NOEL (dermal; rat/female,male)	subchronic toxic effect, 5040 mg/kg bw/day; no effect; 2 years; experimental value; no effect
NOAEL (inhalation; rat/male)	Equivalent OECD 413; 167 mg/m3 air; no effect; respiratory tract; 13 weeks (6 h/day, 5 days/week), experimental value
<b>reaction mass (3:1) of 5-chloro-2-methyl-2H-isothiazole-3-one and 2-methyl-2H-isothiazole-3-one (55965-84-9)</b>	
NOAEL (oral, female; male, dietary)	OECD 409; 22 mg/kg bw day; no systemic effects; 13 weeks exposure; experimental value
NOAC (dermal, local effects, rat, male)	EPA OPP 82.3; 0.105 mg/kg bw; no effect, 13 weeks (6 h/day; 5 days/week); experimental value
NOAEL (dermal, systemic effects, rat male/female)	EPA OPP 82.3; 2625 mg/kg bw day; no systemic effects; 13 weeks (6 h/day; 5 days/week); experimental value
NOAEC (inhalation, aerosol, rat male/female)	OECD 412; 110 mg/m3 air; no effect; 4 weeks (6h/day; 5 days/week; experimental value

Conclusion: not classified for subchronic effect

Mutagenicity (in vitro)

: Not classified; The opinion is based on the relevant ingredients

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<b>DIPROPYLENE GLYCOL (25265-71-8)</b>	
Bacteria (S. typhimurium)	OECD 471; negative; experimental value
Mouse (lymphoma L5178Y cells)	Equivalent to OECD 476; negative; experimental value
<b>2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (112-34-5)</b>	
Chinese hamster ovary (CHO)	Equivalent to OECD 476; negative with metabolic activation; negative without metabolic activation; experimental value
Bacteria (S. typhimurium)	Equivalent to OECD 471; negative with metabolic activation; negative without metabolic activation; experimental value
<b>GLYCERIN (56-81-5)</b>	
Chinese hamster ovary (CHO)	Equivalent to OECD 473; negative without metabolic activation; no effect; experimental value
Bacteria (S. typhimurium)	Equivalent to OECD 471; negative with metabolic activation; negative without metabolic activation; no effect; experimental value
Chinese hamster ovary (CHO)	Equivalent to OECD 476; negative with metabolic activation; negative without metabolic activation; no effect; experimental value
<b>reaction mass (3:1) of 5-chloro-2-methyl-2H-isothiazole-3-one and 2-methyl-2H-isothiazole-3-one (55965-84-9)</b>	
Mouse (lymphoma L5178 cells)	EPA OPP 84-2; positive with metabolic activation; positive without metabolic activation; aqueous solution; experimental value
Bacteria (S. typhimurium)	EPA OPP 84-2; positive with metabolic activation; positive without metabolic activation; aqueous solution; experimental value

Mutagenicity (in vivo) : Not classified; The opinion is based on the relevant ingredients

<b>DIPROPYLENE GLYCOL (25265-71-8)</b>	
Mouse (male)	OECD 474; negative; experimental value
<b>2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (112-34-5)</b>	
Mouse (male, female)	Equivalent to OECD 475; negative (oral (gastric tube)); experimental value
<b>reaction mass (3:1) of 5-chloro-2-methyl-2H-isothiazole-3-one and 2-methyl-2H-isothiazole-3-one (55965-84-9)</b>	
Mouse (male, female)	EPA OPP 84-2; negative (oral (gastric tube)); 2 doss/24 h interval; experimental value

Cancer-causing ability : Not classified; The opinion is based on the relevant ingredients

<b>DIPROPYLENE GLYCOL (25265-71-8)</b>	
NOAEL, oral, rat (male, female)	OECD 453, 2330 mg/ kg bw/day; 105 weeks (daily, 5 days/week); experimental value
<b>GLYCERIN (56-81-5)</b>	
Oral (diet), dose level carcinogenicity study; rat (male, female)	8000 mg/kg bw/day - 10000 mg/kg bw/day; 2 years; no carcinogenic effect; experimental value
<b>reaction mass (3:1) of 5-chloro-2-methyl-2H-isothiazole-3-one and 2-methyl-2H-isothiazole-3-one (55965-84-9)</b>	
NOEL, oral (drinking water); rat (female, male)	OECD 453; 300 ppm; 24 month; no carcinogenic effect; experimental value

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Reproductive toxicity : Not classified; The opinion is based on the relevant ingredients

<b>DIPROPYLENE GLYCOL (25265-71-8)</b>	
NOAEL; developmental toxicity; rabbit (male, female)	Equivalent to OECD 414, 1200 mg/kg bw/day; 9 days; no effect; experimental value
NOAEL (P); effects on fertility; mouse (male, female)	Equivalent to OECD 416; 10100 mg/kg bw/day; 140 days; no effect; experimental value
<b>2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (112-34-5)</b>	
NOAEL; developmental toxicity; oral (dietary); rat	Equivalent to OECD 414; 633 mg/kg bw/day; 21 days (gestation, daily); no effect; experimental value
NOAEL; maternal toxicity (oral (dietary)); rat	Equivalent to OECD 414; 633 mg/kg bw/day; 21 days (gestation, daily); no effect; experimental value
NOAL (P); NTP Protocol for continuous breeding; Mouse (male, female); Effects on fertility (oral (drinking water))	720 mg/kg body weight/day; 14 weeks; no effect; read-across
<b>GLYCERIN (56-81-5)</b>	
NOAEL, developmental toxicity (oral (gastric tube)), rat	Equivalent to OECD 414; 1310 mg/kg bw/day; 10 days (gestation, daily); no effect foetus; experimental value
NOAEL, maternal toxicity (oral (gastric) tube), rat	Equivalent to OECD 414; 1310 mg/kg bw/day; 10 days (gestation, daily); no effect; experimental value
Effects on fertility; oral (gastric tube); rat (male, female)	Dose level 2000 mg/kg bw/day; 8 weeks (daily) - 12 weeks (daily); no effect; experimental value
<b>reaction mass (3:1) of 5-chloro-2-methyl-2H-isothiazole-3-one and 2-methyl-2H-isothiazole-3-one (55965-84-9)</b>	
NOAEL EPA OPP 83-3; developmental toxicity; oral (gastric tube); rat	>= 19,6 mg/kg bw/day; 10 days (gestation, daily); no effect; experimental value
LOAEL EPA OPP 83-3; maternal toxicity; oral (gastric tube); maternal toxicity	28 mg/kg bw/day; 10 days (gestation, daily); experimental value
NOAEL (oral, drinking water); effects on fertility; rat (female, male)	OECD 416; 300 ppm; 10 weeks; no effect

Toxicity other effects : Not classified

Chronic effects for short and long exposure : Skin rash; inflammation

## SECTION 12: Ecological information

### 12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.

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<b>DIPROPYLENE GLYCOL (25265-71-8)</b>	
LC50 - acute toxicity fishes	OECD 203; > 1000 mg/l Test organisms (species): Oryzias latipes; 96 h; semi-static system; fresh water; experimental value
EC50 - Acute toxicity crustacea	OECD 202; > 100 mg/l; Daphnia magna; 48 h; static system; fresh water; experimental value
EC 50 - Toxicity algae and other aquatic plants	OECD 201; > 100 mg/l; desmodesmus subspicatus; 72 h; fresh water; experimental value
NOEC - Toxicity algae and other aquatic plants	OECD 201; > 100 mg/l; desmodesmus subspicatus; 72 h; fresh water; experimental value
LC 50 - Acute toxicity other aquatic organisms	Other; 3181 mg/l; 48 h; xenopus laevis; fresh water; experimental value
ChV - Long term toxicity fish	ECOSAR; 1340 mg/l; 30 day(s); fresh water; QSAR
ChV - Long-term toxicity aquatic crustacea	ECOSAR; 466 mg/l; 16 day(s); Daphnia sp.; fresh water; QSAR
EC 10 - Toxicity aquatic micro-organisms	UBA; >= 1000 mg/l; 18 h; pseudomonas putida; static system; fresh water; experimental value
LD 50 - Toxicity birds	OPPTS 850.2100; acute oral toxicity test; 14 day(s); colinus virginianus; experimental value
<b>2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (112-34-5)</b>	
LC 50 - acute toxicity fishes	Equivalent to OECD 203, 1300 mg/l; 96 h; Lepomis macrochirus; static system; fresh water; experimental value; nominal concentration
EC 50 - Acute toxicity crustacea	EU method C.2; > 100 mg/l ; 48 h ; Daphnia magna; static system; fresh water; experimental value; locomotor effect
ErC 50 - toxicity algae and other aquatic plants	OECD 201; > 100 mg/l; 96 h; demodesmus subspicatus; static system; fresh water; experimental value; nominal concentration
NOEC - toxicity algae and other aquatic plants	OECD 201; >= 100 mg/l; 96 h; demodesmus subspicatus; static system; fresh water; experimental value; growth rate
Long-term toxicity fish	ChV; 369 mg/l; pisces; QSAR
Long-term toxicity aquatic crustacea	Data Waiving
EC 10 - Toxicity aquatic micro-organisms	Equivalent to OECD 209; > 1995 mg/l; 30 minutes; activated sludge; static system; fresh water; experimental value; respiration
<b>GLYCERIN (56-81-5)</b>	
LC 50 - Acute toxicity fishes	54000 mg/l; 96 h; Oncorhynchus mykiss; static system; fresh water; experimental value; Lethal
EC 50 - Acute toxicity crustacea	>10000 mg/l; 24 h; Daphnia Magna; static system; fresh water; experimental value; locomotor effect
EC0 - toxicity algae and other aquatic plants	>10000 mg/l; 8 day(s); Scenedesmus quadricauda; static system; fresh water; experimental value; turbid water
Long term toxicity fish	Data waiving
Long-term toxicity aquatic crustacea	Data waiving
Toxicity threshold - Toxicity aquatic microorganisms	>10000 mg/l; 16 h; pseudomas putida; static system; fresh water; experimental value; growth
<b>Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)</b>	
EC 50 - Acute toxicity crustacea	0,007 mg/l; 48 h; acartia tonsa; salt water; experimental value; GLP
NOEC - toxicity algae and other aquatic plants	OECD 201; 0,49 µg/l; 48 h; skeletonema costatum; static system; salt water; experimental value; growth rate

### 12.2. Persistence and degradability

Conclusion: water contains biodegradable component(s)

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<b>DIPROPYLENE GLYCOL (25265-71-8)</b>	
Biodegradation water	OECD 301F; 93.4%; 28 day(s); experimental value OECD 306; 23.6%; 64 day(s); experimental value
Phototransformation air (DT 50 air)	0.341 day(s); 1500000/cm <sup>3</sup> ; QSAR
<b>2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (112-34-5)</b>	
Biodegradation water	OECD 301C; 85% oxygen consumption; 28 day(s); experimental value;
Phototransformation air (DT 50 air)	AOPWIN; 11 h; 5E5 /cm <sup>3</sup> ; QSAR
<b>GLYCERIN (56-81-5)</b>	
Biodegradation water	94 %, 24 h; experimental value
<b>Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)</b>	
Biodegradation water	OECD 301B; % 47.6- %55.8; GLP; 28 day(s); experimental value

### 12.3. Bioaccumulative potential

<b>DIPROPYLENE GLYCOL (25265-71-8)</b>	
Log kow - Equivalent to OECD 107	-0.462; 21.7°C; test data
<b>2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (112-34-5)</b>	
Log know - OECD 117	Value:1; temperature: 20.0°C; experimental value
BCF fishes	Data waiving
<b>sucrose (57-50-1)</b>	
Log kow	Value: -3.70; experimental value
<b>GLYCERIN (56-81-5)</b>	
OECD 107	Value: -1.75°C; 25°C; experimental value
<b>Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)</b>	
BCF Fishes	Parameter: BCF; OECD 305; Value: 41-54; Fresh weight; 28 days; Lepomis macrochirus; experimental value
Log Know	Value: 0.75; Temperatur: 24°C; Experimental value

Conclusion: Does not contain bioaccumulative component(s)

### 12.4. Mobility in soil

<b>DIPROPYLENE GLYCOL (25265-71-8)</b>	
(Log) koc	Value: 0.78; calculated value
Percent distributon	Method: Mackay level III; Fraction air: 0.11%; Fraction sediment: 0.08%; Fraction soil: 53.7%; Fraction water: 46.1%; Value determination: calculated value
<b>2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (112-34-5)</b>	
(Log)koc	Method: SRC PCKOCWIN v 2.0; Value: 0,642 - 1,000; value determination: calculated value
Percent distribution	Method: Mackay level I; fraction air: 0,01%; fraction biota: 0%; fraction sediment: 0,01%; fraction soil: 0,32%; fraction water: 99,66%; Value determination: calculated value



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sucrose (57-50-1)	
(Log) koc	Method: SRC PCKOCWIN v2.0; value: 1.0; value determination: calculated value
GLYCERIN (56-81-5)	
(log)koc	Method: SCR PCKOCWIN v2.0; value: 0; value determination: calculated value
Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	
(log)koc	
Koc	Method: OECD 106; Value: 6.4 -10; value determination: experimental value
Log Koc	Value: 0.81 - 1; value determination: calculated value

### 12.5. Results of PBT and vPvB assessment

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PBT: not relevant – no registration required

### 12.6. Other adverse effects

Other adverse effects : Not listed.  
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3 : 1)  
Additional information : 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether. Danger of drinking-water pollution (ground water). Glycerol. Danger of drinking-water pollution (ground water). Danger of drinking-water pollution (ground water)

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations. Use appropriate container to avoid environmental contamination.  
Sewage disposal recommendations : Disposal must be done according to official regulations.  
Additional information : Consult an expert on waste disposal or treatment.  
European List of Waste (LoW) code : 15 01 10\* - packaging containing residues of or contaminated by dangerous substances

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN
14.1. UN number			
Not applicable	Not applicable	Not applicable	UN 9006
14.2. UN proper shipping name			
Not applicable	Not applicable	Not applicable	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (environmentally hazardous substance, liquid, Proper shipping name n.o.s.)
Transport document description			
Not applicable	Not applicable	Not applicable	UN 9006 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (environmentally hazardous substance, liquid, Proper shipping name n.o.s.), 9

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ADR	IMDG	IATA	ADN
<b>14.3. Transport hazard class(es)</b>			
Not applicable	Not applicable	Not applicable	9
<b>14.4. Packing group</b>			
Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>			
Not applicable	Not applicable	Not applicable	Dangerous for the environment: No
No supplementary information available			

### 14.6. Special precautions for user

Special transport precautions : Dangerous only when carried in tank vessels

#### Overland transport

Not applicable

#### Transport by sea

Not applicable

#### Air transport

Not applicable

#### Inland waterway transport

Carriage permitted (ADN) : T  
Equipment required (ADN) : PP  
Number of blue cones/lights (ADN) : 0  
Additional requirements/Remarks (ADN) : Dangerous only when carried in tank vessels

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

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions  
Contains no substance on the REACH candidate list  
Contains no REACH Annex XIV substances  
Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.  
Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants  
Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.  
VOC content : < 1 %

#### 15.1.2. National regulations

##### Austria

Austrian National Regulations : No information available.

##### Belgium

Belgian National Regulations : No information available.

##### Germany

Water hazard class (WGK) : WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1)  
Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

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Storage class (LGK, TRGS 510) : LGK 12 - Non-combustible liquids

### Netherlands

Waterbezwaarlijkheid : A (3); Algemene Beoordelingsmethodiek (ABM)

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen – Borstvoeding

: None of the components are listed

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen – Vruchtbaarheid

: None of the components are listed

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen – Ontwikkeling

: None of the components are listed

### Denmark

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product  
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

### Switzerland

Storage class (LK) : LK 10/12 - Liquids

### United Kingdom

British National Regulations : No information available.

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

### Full text of H- and EUH-statements:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
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.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.