

**Trade name:** Disinfectant solution, not ready to use

**Current version :** 5.1.0, issued: 15.07.2019

**Replaced version:** 5.0.2, issued: 20.09.2018

**Region:** GB

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

### 1.1 Product identifier

**Trade name**

**Disinfectant solution, not ready to use**

**Order No. 0201-0003-001**

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

**Relevant identified uses of the substance or mixture**

Disinfection of the flowing system for BIOSEN Glucose- and Lactate analyzers

**Uses advised against**

No data available.

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

**Address**

EKF-diagnostic GmbH  
Ebendorfer Chaussee 3  
39179 Barleben  
Germany

Telephone no. +49(0)39203511-0  
Fax no. +49(0)39203511-171

**Information provided by / telephone**

Telephone number +49(0)39203511-0

**Advice on Safety Data Sheet**

support@ekf-diagnostic.de

### 1.4 Emergency telephone number

For medical advice (in German and English):  
+49 (0)551 192 40 (Giftinformationszentrum Nord)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Acute Tox. 2; H330  
Acute Tox. 4; H302  
Aquatic Acute 1; H400  
Aquatic Chronic 2; H411  
Carc. 1B; H350  
Eye Dam. 1; H318  
Flam. Liq. 3; H226  
Muta. 2; H341  
Resp. Sens. 1; H334  
Skin Corr. 1B; H314  
Skin Sens. 1; H317  
Skin Sens. 1A; H317  
STOT SE 3; H335

**Classification information**

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

### 2.2 Label elements

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

### Hazard pictograms



GHS02



GHS05



GHS06



GHS08



GHS09

### Signal word

Danger

### Hazardous component(s) to be indicated on label:

formaldehyde

Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched (ethylenedioxy)dimethanol

Glutaral

Poly(oxy-1,2-ethanediyl), .alpha.-octyl-.omega.-hydroxy-

### Hazard statement(s)

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H330	Fatal if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects
H350	May cause cancer
H410	Very toxic to aquatic life with long lasting effects.

### Precautionary statement(s)

P201	Obtain special instructions before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P264	Wash thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P310	Immediately call a POISON CENTER/doctor.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
P370+P378	In case of fire: Use water spray, extinguishing powder, foam or CO2 to extinguish.
P391	Collect spillage.
P501	Dispose of contents/container to a facility in accordance with local and national regulations.

### Supplemental label elements

"Restricted to professional users"

## 2.3 Other hazards

PBT assessment

The components of this product are not considered to be a PBT.

vPvB assessment

The components of this product are not considered to be a vPvB.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

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Not applicable. The product is not a substance.

### 3.2 Mixtures

#### Chemical characterization

aqueous solution

#### Hazardous ingredients

No	Substance name	Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration %
1	<b>formaldehyde</b>		
	50-00-0 200-001-8 605-001-00-5 01-2119488953-20	Acute Tox. 3; H301 Acute Tox. 3; H311 Acute Tox. 3; H331 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Muta. 2; H341 Carc. 1B; H350	>= 5.00 - < 10.00 %-b.w.
2	<b>propan-2-ol</b>		
	67-63-0 200-661-7 603-117-00-0 01-2119457558-25	Eye Irrit. 2; H319 Flam. Liq. 2; H225 STOT SE 3; H336	>= 5.00 - < 10.00 %-b.w.
3	<b>Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched</b>		
	69011-36-5 - - -	Eye Dam. 1; H318 Aquatic Chronic 3; H412	>= 5.00 - < 10.00 %-b.w.
4	<b>(ethylenedioxy)dimethanol</b>		
	3586-55-8 222-720-6 - 01-2120733841-56	Acute Tox. 4; H302 Eye Dam. 1; H318 Skin Irrit. 2; H315	>= 5.00 - < 10.00 %-b.w.
5	<b>Glutaral</b>		
	111-30-8 203-856-5 605-022-00-X 01-2119455549-26	Acute Tox. 3; H301 Acute Tox. 1; H330 Aquatic Acute 1; H400 Resp. Sens. 1; H334 Skin Corr. 1B; H314 Skin Sens. 1; H317 Aquatic Chronic 2; H411 STOT SE 3; H335	>= 5.00 - < 10.00 %-b.w.
6	<b>Poly(oxy-1,2-ethanediyl), .alpha.-octyl-.omega.-hydroxy-</b>		
	27252-75-1 - - -	Eye Dam. 1; H318	>= 5.00 - < 10.00 %-b.w.
7	<b>[[[(2-hydroxyethyl)imino]bis(methylene)]bisphosphonic acid</b>		
	5995-42-6 227-833-4 - -	Skin Corr. 1A; H314	< 5.00 %-b.w.
8	<b>didecyldimethylammonium-chloride</b>		
	7173-51-5 230-525-2 612-131-00-6 01-2119945987-15	Acute Tox. 3; H301 Skin Corr. 1B; H314 Aquatic Acute 1; H400 Aquatic Chronic 2; H411	< 2.50 %-b.w.
9	<b>Quaternary ammonium compounds, benzyl C12-C16 (even numbered)-alkyldimethyl chlorides</b>		

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- 939-253-5 - 01-2119965180-41	Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Eye Dam. 1; H318 Skin Corr. 1B; H314	< 2.50	%-b.w.
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Full Text for all H-phrases and EUH-phrases: pls. see section 16

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
1	B,D	Skin Irrit. 2; H315: C >= 5% STOT SE 3; H335: C >= 5% Eye Irrit. 2; H319: C >= 5% Skin Corr. 1B; H314: C >= 25%	-	-
5	-	STOT SE 3; H335: C >= 0.5%	-	-
8	-	-	M = 10	M = 1
9	-	-	M = 10	-

Full text for the notes: pls. see section 16 "Notes relating to the identification, classification and labelling of substances ((EC) No 1272/2008, Annex VI)".

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing.

#### After inhalation

Ensure supply of fresh air.

#### After skin contact

Wash off immediately with soap and water.

#### After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Seek medical assistance.

#### After ingestion

Rinse out mouth and give plenty of water to drink. Call a doctor.

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

No data available.

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

No data available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Carbon dioxide; Extinguishing powder; Water spray jet; Alcohol-resistant foam; Sand

#### Unsuitable extinguishing media

High power water jet

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

In the event of fire, the following can be released: Carbon dioxide (CO<sub>2</sub>); Carbon monoxide (CO)

### 5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing.

## SECTION 6: Accidental release measures

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

For non-emergency personnel

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Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation.

**For emergency responders**

No data available. Personal protective equipment (PPE) - see Section 8.

**6.2 Environmental precautions**

Do not allow to enter drains or waterways. Do not discharge into surface waters/groundwater.

**6.3 Methods and material for containment and cleaning up**

Pick up with absorbent material (e.g., sand, sawdust, general-purpose binder). Send in suitable containers for recovery or disposal.

**6.4 Reference to other sections**

Information regarding safe handling, see chapter 7. Information regarding personal protective measures, see chapter 8. Information regarding waste disposal, see chapter 13.

## SECTION 7: Handling and storage

**7.1 Precautions for safe handling**

**Advice on safe handling**

Provide good ventilation at the work area (local exhaust ventilation, if necessary).

**General protective and hygiene measures**

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Remove soiled or soaked clothing immediately. Wash hands before breaks and after work. Avoid contact with eyes and skin.

**Advice on protection against fire and explosion**

Keep away from sources of ignition - refrain from smoking.

**7.2 Conditions for safe storage, including any incompatibilities**

**Technical measures and storage conditions**

Keep container tightly closed in a well-ventilated place. Keep from freezing.

**Requirements for storage rooms and vessels**

Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers of same material as the original one.

**Incompatible products**

Do not store together with foodstuffs.

**7.3 Specific end use(s)**

No data available.

## SECTION 8: Exposure controls/personal protection

**8.1 Control parameters**

**Occupational exposure limit values**

No	Substance name	CAS no.	EC no.
1	formaldehyde	50-00-0	200-001-8
	<b>List of approved workplace exposure limits (WELs) / EH40</b>		
	Formaldehyde		
	WEL short-term (15 min reference period)	2.5 mg/m <sup>3</sup>	2 ppm
	WEL long-term (8-hr TWA reference period)	2.5 mg/m <sup>3</sup>	2 ppm
2	propan-2-ol	67-63-0	200-661-7
	<b>List of approved workplace exposure limits (WELs) / EH40</b>		
	Propan-2-ol		
	WEL short-term (15 min reference period)	1250 mg/m <sup>3</sup>	500 ppm
	WEL long-term (8-hr TWA reference period)	999 mg/m <sup>3</sup>	400 ppm
3	Glutaral	111-30-8	203-856-5
	<b>List of approved workplace exposure limits (WELs) / EH40</b>		
	Glutaraldehyde		
	WEL short-term (15 min reference period)	0.2 mg/m <sup>3</sup>	0.05 ppm

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WEL long-term (8-hr TWA reference period)	0.2	mg/m <sup>3</sup>	0.05	ppm
Comments	Sen			

## DNEL, DMEL and PNEC values

### DNEL values (worker)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	<b>formaldehyde</b>			<b>50-00-0</b> <b>200-001-8</b>	
	dermal	Long term (chronic)	systemic	240	mg/kg
	dermal	Long term (chronic)	local	0.037	mg/cm <sup>2</sup>
	inhalative	Short term (acut)	local	0.75	mg/m <sup>3</sup>
	inhalative	Long term (chronic)	systemic	9	mg/m <sup>3</sup>
	inhalative	Long term (chronic)	local	0.375	mg/m <sup>3</sup>
2	<b>propan-2-ol</b>			<b>67-63-0</b> <b>200-661-7</b>	
	dermal	Long term (chronic)	systemic	888	mg/kg/day
	inhalative	Long term (chronic)	systemic	500	mg/m <sup>3</sup>
3	<b>(ethylenedioxy)dimethanol</b>			<b>3586-55-8</b> <b>222-720-6</b>	
	dermal	Long term (chronic)	systemic	0.82	mg/kg/day
	dermal	Short term (acut)	systemic	0.82	mg/kg/day
	dermal	Long term (chronic)	local	0.12	mg/cm <sup>2</sup>
	inhalative	Long term (chronic)	systemic	1.45	mg/m <sup>3</sup>
	inhalative	Long term (chronic)	local	0.12	mg/m <sup>3</sup>
	inhalative	Short term (acut)	systemic	1.45	mg/m <sup>3</sup>
	inhalative	Short term (acut)	local	0.12	mg/m <sup>3</sup>
4	<b>Glutaral</b>			<b>111-30-8</b> <b>203-856-5</b>	
	dermal	Long term (chronic)	systemic	6.25	mg/kg/day
	inhalative	Long term (chronic)	local	0.21	mg/m <sup>3</sup>
	inhalative	Short term (acut)	local	0.42	mg/m <sup>3</sup>
5	<b>Quaternary ammonium compounds, benzyl C12-C16 (even numbered)-alkyldimethyl chlorides</b>			<b>-</b> <b>939-253-5</b>	
	dermal	Long term (chronic)	systemic	5.7	mg/kg/day
	inhalative	Long term (chronic)	systemic	3.96	mg/m <sup>3</sup>

### DNEL value (consumer)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	<b>formaldehyde</b>			<b>50-00-0</b> <b>200-001-8</b>	
	oral	Long term (chronic)	systemic	4.1	mg/kg
	dermal	Long term (chronic)	systemic	102	mg/kg
	dermal	Long term (chronic)	local	0.012	mg/cm <sup>2</sup>
	inhalative	Long term (chronic)	systemic	3.2	mg/m <sup>3</sup>
	inhalative	Long term (chronic)	local	0.1	mg/m <sup>3</sup>
2	<b>propan-2-ol</b>			<b>67-63-0</b> <b>200-661-7</b>	
	oral	Long term (chronic)	systemic	26	mg/kg/day
	dermal	Long term (chronic)	systemic	319	mg/kg/day
	inhalative	Long term (chronic)	systemic	89	mg/m <sup>3</sup>
3	<b>(ethylenedioxy)dimethanol</b>			<b>3586-55-8</b> <b>222-720-6</b>	
	oral	Long term (chronic)	systemic	0.82	mg/kg/day
	oral	Short term (acut)	systemic	0.82	mg/kg/day
	inhalative	Long term (chronic)	systemic	1.45	mg/m <sup>3</sup>
4	<b>Quaternary ammonium compounds, benzyl C12-C16 (even numbered)-alkyldimethyl chlorides</b>			<b>-</b> <b>939-253-5</b>	

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oral	Long term (chronic)	systemic	3.4	mg/kg/day
dermal	Long term (chronic)	systemic	3.4	mg/kg/day
inhalative	Long term (chronic)	systemic	1.64	mg/m <sup>3</sup>

## PNEC values

No	Substance name	CAS / EC no	
	ecological compartment	Type	Value
1	<b>formaldehyde</b>	<b>50-00-0</b> <b>200-001-8</b>	
	water	fresh water	0.44 mg/L
	water	marine water	0.44 mg/L
	water	fresh water sediment	2.3 mg/L
	water	marine water sediment	2.3 mg/L
	water	Aqua intermittent	4.44 mg/L
	soil	-	0.2 mg/L
	sewage treatment plant	-	0.19 mg/L
2	<b>propan-2-ol</b>	<b>67-63-0</b> <b>200-661-7</b>	
	water	fresh water	140.9 mg/L
	water	marine water	140.9 mg/L
	water	fresh water sediment	552 mg/L
	water	marine water sediment	552 mg/L
	water	Aqua intermittent	140.9 mg/L
	soil	-	28 mg/kg
	sewage treatment plant	-	2251 mg/L
	secondary poisoning	-	160 mg/kg
	with reference to: food		
3	<b>(ethylenedioxy)dimethanol</b>	<b>3586-55-8</b> <b>222-720-6</b>	
	water	fresh water	0.49 mg/L
	water	marine water	0.049 mg/L
	water	fresh water sediment	2.54 mg/kg dry weight
	water	marine water sediment	0.254 mg/kg dry weight
	soil	-	0.22 mg/kg dry weight
	sewage treatment plant	-	1.7 mg/L
4	<b>Glutaral</b>	<b>111-30-8</b> <b>203-856-5</b>	
	water	fresh water	0.003 mg/L
	water	marine water	0 mg/L
	water	Aqua intermittent	0.006 mg/L
	water	fresh water sediment	0.091 mg/kg dry weight
	water	marine water sediment	0.009 mg/kg dry weight
	soil	-	0.18 mg/kg dry weight
	sewage treatment plant	-	0.8 mg/L
5	<b>Quaternary ammonium compounds, benzyl C12-C16 (even numbered)-alkyldimethyl chlorides</b>	- <b>939-253-5</b>	
	water	fresh water	0.001 mg/L
	water	marine water	0.001 mg/L
	water	Aqua intermittent	0 mg/L
	water	fresh water sediment	12.27 mg/kg dry weight
	water	marine water sediment	13.09 mg/kg dry weight

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soil	-	7	mg/kg dry weight
sewage treatment plant	-	0.4	mg/L

## 8.2 Exposure controls

### Appropriate engineering controls

No data available.

### Personal protective equipment

#### Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

#### Eye / face protection

Tightly fitting safety glasses (EN 166).

#### Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material	nitrile rubber		
Material thickness		0.1	mm
Breakthrough time	>	480	min

#### Other

Chemical-resistant work clothes.

### Environmental exposure controls

No data available.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Form/Colour</b>			
liquid			
blue			
<b>Odour</b>			
characteristic			
<b>Odour threshold</b>			
No data available			
<b>pH value</b>			
Value		4	
Reference temperature		20	°C
Source	supplier		
<b>Boiling point / boiling range</b>			
Value		100	°C
Source	supplier		
<b>Melting point / melting range</b>			
not determined			
<b>Decomposition point / decomposition range</b>			
No data available			
<b>Flash point</b>			
Value		46	°C
Method	DIN 51755		



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Source	supplier		
<b>Auto-ignition temperature</b>			
Source	supplier		
Comments	Product is not selfigniting.		
<b>Oxidising properties</b>			
No data available			
<b>Explosive properties</b>			
No data available			
<b>Flammability (solid, gas)</b>			
No data available			
<b>Lower flammability or explosive limits</b>			
No data available			
<b>Upper flammability or explosive limits</b>			
No data available			
<b>Vapour pressure</b>			
No data available			
<b>Vapour density</b>			
No data available			
<b>Evaporation rate</b>			
No data available			
<b>Relative density</b>			
No data available			
<b>Density</b>			
Value	1.04	g/cm <sup>3</sup>	
Reference temperature	20	°C	
Source	supplier		
<b>Solubility in water</b>			
Source	supplier		
Comments	soluble		
<b>Solubility(ies)</b>			
No data available			
<b>Partition coefficient: n-octanol/water</b>			
No	Substance name	CAS no.	EC no.
1	formaldehyde	50-00-0	200-001-8
	log Pow	0.35	
	Reference temperature	25 °C	
	Source	ECHA	
2	propan-2-ol	67-63-0	200-661-7
	log Pow	0.05	
	Reference temperature	25 °C	
	Source	ECHA	
3	(ethylenedioxy)dimethanol	3586-55-8	222-720-6
	log Pow	0.35	
	Method	OECD 107	
	Source	ECHA	
4	Quaternary ammonium compounds, benzyl C12-C16 (even numbered)-alkyldimethyl chlorides	-	939-253-5
	log Pow	2.75	
	Method	OECD 107	
	Source	ECHA	
<b>Viscosity</b>			

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No data available

**9.2 Other information****Other information**

No data available.

**SECTION 10: Stability and reactivity****10.1 Reactivity**

Dangerous reactions are not expected if the product is handled according to its intended use.

**10.2 Chemical stability**

Stable under recommended storage and handling conditions (See section 7).

**10.3 Possibility of hazardous reactions**

No data available.

**10.4 Conditions to avoid**

Protect from heat and direct sunlight.

**10.5 Incompatible materials**

Amines; anionic surfactants

**10.6 Hazardous decomposition products**

Possibility of splitting-off of small amounts of formaldehyde

**SECTION 11: Toxicological information****11.1 Information on toxicological effects**

Acute oral toxicity (result of the ATE calculation for the mixture)			
No	Product Name	CAS no.	EC no.
1	Disinfectant solution, not ready to use Order No. 0201-0003-001		
ATE (Mixture)		602.04	
Method		Calculation method according Regulation (EC) No 1272/2008, (CLP), annex I, part 3, section 3.1.3.6.	
Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	propan-2-ol	67-63-0	200-661-7
LD50		5840	mg/kg bodyweight
Species		rat	
Method		OECD 401	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
2	Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-omega.-hydroxy-, branched	69011-36-5	-
LD50		> 300	mg/kg bodyweight
Species		rat	
Source		supplier	
3	Glutaral	111-30-8	203-856-5
LD50		200	mg/kg bodyweight
Species		rat	
Source		supplier	
4	didecyldimethylammonium-chloride	7173-51-5	230-525-2
LD50		238	mg/kg bodyweight
Species		rat	
Method		OECD 401	
Source		supplier	
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LD50	795	mg/kg bodyweight
Species	rat	
Method	OECD 401	
Source	ECHA	

Acute dermal toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	<b>Disinfectant solution, not ready to use</b> <b>Order No. 0201-0003-001</b>
Comments	The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE dermal > 2000 mg/kg).

Acute dermal toxicity			
No	Substance name	CAS no.	EC no.
1	<b>(ethylenedioxy)dimethanol</b>	<b>3586-55-8</b>	<b>222-720-6</b>
LD50	>	2000	mg/kg bodyweight
Species	rabbit		
Method	OECD 402		
Source	ECHA		
2	<b>Glutaral</b>	<b>111-30-8</b>	<b>203-856-5</b>
LD50		1749	mg/kg bodyweight
Species	rabbit		
Source	supplier		
3	<b>didecyldimethylammonium-chloride</b>	<b>7173-51-5</b>	<b>230-525-2</b>
LD50		3342	mg/kg bodyweight
Species	rabbit		
Source	supplier		
4	<b>Quaternary ammonium compounds, benzyl C12-C16 (even numbered)-alkyldimethyl chlorides</b>		<b>939-253-5</b>
LD50		3412	mg/kg bodyweight
Species	rabbit		
Method	EPA OPPTS 870.1200		
Source	ECHA		

Acute inhalational toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	<b>Disinfectant solution, not ready to use</b> <b>Order No. 0201-0003-001</b>
ATE (Mixture)	0.5093
Route of exposure / physical from Method	Vapour Calculation method according Regulation (EC) No 1272/2008, (CLP), annex I, part 3, section 3.1.3.6.

Acute inhalational toxicity			
No	Substance name	CAS no.	EC no.
1	<b>formaldehyde</b>	<b>50-00-0</b>	<b>200-001-8</b>
LC50	<	0.56	mg/l
Duration of exposure		4	h
State of aggregation	Vapour		
Species	rat		
Method	OECD 403		
Source	ECHA		
2	<b>propan-2-ol</b>	<b>67-63-0</b>	<b>200-661-7</b>
LC50	>	10000	ppmV
Duration of exposure		6	h
State of aggregation	Gas		
Species	rat		
Method	OECD 403		
Source	ECHA		

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Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>3</b>	<b>Glutaral</b>	<b>111-30-8</b>	<b>203-856-5</b>
LC50		0.35	mg/l
Duration of exposure		4	h
State of aggregation	Dust		
Species	rat		
Source	supplier		

<b>Skin corrosion/irritation</b>			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>formaldehyde</b>	<b>50-00-0</b>	<b>200-001-8</b>
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	corrosive		
<b>2</b>	<b>propan-2-ol</b>	<b>67-63-0</b>	<b>200-661-7</b>
Species	rabbit		
Source	ECHA		
Evaluation	non-irritant		
Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>3</b>	<b>((ethylenedioxy)dimethanol</b>	<b>3586-55-8</b>	<b>222-720-6</b>
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	irritant		
<b>4</b>	<b>Glutaral</b>	<b>111-30-8</b>	<b>203-856-5</b>
Species	rabbit		
Method	OECD 404		
Source	supplier		
Evaluation	corrosive		
<b>5</b>	<b>[[[(2-hydroxyethyl)imino]bis(methylene)]bisphosphonic acid</b>	<b>5995-42-6</b>	<b>227-833-4</b>
Species	rabbit		
Method	OECD 404		
Source	supplier		
Evaluation	corrosive		
<b>6</b>	<b>Quaternary ammonium compounds, benzyl C12-C16 (even numbered)-alkyldimethyl chlorides</b>	<b>-</b>	<b>939-253-5</b>
Species	rabbit		
Method	EPA OPPTS 870.2500		
Source	ECHA		
Evaluation	corrosive		

<b>Serious eye damage/irritation</b>			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>formaldehyde</b>	<b>50-00-0</b>	<b>200-001-8</b>
Source	ECHA		
Evaluation	corrosive		
Evaluation/classification	Based on available data, the classification criteria are met.		
<b>2</b>	<b>propan-2-ol</b>	<b>67-63-0</b>	<b>200-661-7</b>
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	irritant		
Evaluation/classification	Based on available data, the classification criteria are met.		
<b>3</b>	<b>Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched</b>	<b>69011-36-5</b>	<b>-</b>
Species	rabbit		
Method	OECD 437		
Source	supplier		

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Evaluation	Irreversible effects on the eye		
<b>4</b>	<b>(ethylenedioxy)dimethanol</b>	<b>3586-55-8</b>	<b>222-720-6</b>
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	corrosive		
<b>5</b>	<b>Glutaral</b>	<b>111-30-8</b>	<b>203-856-5</b>
Species	rabbit		
Method	Draize method		
Source	supplier		
Evaluation	Irreversible effects on the eye		
<b>6</b>	<b>[[[(2-hydroxyethyl)imino]bis(methylene)]bisphosphonic acid</b>	<b>5995-42-6</b>	<b>227-833-4</b>
Species	rabbit		
Source	supplier		
Evaluation	corrosive		
<b>7</b>	<b>Quaternary ammonium compounds, benzyl C12-C16 (even numbered)-alkyldimethyl chlorides</b>	<b>-</b>	<b>939-253-5</b>
Species	rabbit		
Method	EPA OPPTS 870-2400		
Source	ECHA		
Evaluation	corrosive		

## Respiratory or skin sensitisation

No	Substance name	CAS no.	EC no.
<b>1</b>	<b>formaldehyde</b>	<b>50-00-0</b>	<b>200-001-8</b>
Route of exposure	Skin		
Source	ECHA		
Evaluation	sensitizing		
Evaluation/classification	Based on available data, the classification criteria are met.		
<b>2</b>	<b>propan-2-ol</b>	<b>67-63-0</b>	<b>200-661-7</b>
Route of exposure	Skin		
Species	guinea pig		
Method	OECD 406		
Source	ECHA		
Evaluation	non-sensitizing		
Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>3</b>	<b>(ethylenedioxy)dimethanol</b>	<b>3586-55-8</b>	<b>222-720-6</b>
Route of exposure	Skin		
Species	guinea pig		
Method	OECD 406		
Source	ECHA		
Evaluation	non-sensitizing		
<b>4</b>	<b>Quaternary ammonium compounds, benzyl C12-C16 (even numbered)-alkyldimethyl chlorides</b>	<b>-</b>	<b>939-253-5</b>
Route of exposure	Skin		
Species	guinea pig		
Method	OECD 406		
Source	ECHA		
Evaluation	non-sensitizing		

## Germ cell mutagenicity

No	Substance name	CAS no.	EC no.
<b>1</b>	<b>formaldehyde</b>	<b>50-00-0</b>	<b>200-001-8</b>
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are met.		
<b>2</b>	<b>propan-2-ol</b>	<b>67-63-0</b>	<b>200-661-7</b>
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>3</b>	<b>(ethylenedioxy)dimethanol</b>	<b>3586-55-8</b>	<b>222-720-6</b>

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Species	Chinese hamster V79 cells
Method	OECD 476
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.
<b>4</b>	<b>Quaternary ammonium compounds, benzyl C12-C16 (even numbered)-alkyldimethyl chlorides - 939-253-5</b>
Species	mouse
Method	OECD 474
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.
Species	Salmonella typh. TA98, TA100, TA1535, TA1537, TA1538
Method	OECD 471
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.

Reproduction toxicity			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>Quaternary ammonium compounds, benzyl C12-C16 (even numbered)-alkyldimethyl chlorides</b>	<b>-</b>	<b>939-253-5</b>
Species	rat		
Method	OECD 416		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Species	rabbit		
Method	OECD 414		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Carcinogenicity			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>formaldehyde</b>	<b>50-00-0</b>	<b>200-001-8</b>
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are met.		
<b>2</b>	<b>Quaternary ammonium compounds, benzyl C12-C16 (even numbered)-alkyldimethyl chlorides</b>	<b>-</b>	<b>939-253-5</b>
Species	rat		
Method	OECD 453		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

STOT - single exposure
No data available

STOT - repeated exposure			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>(ethylenedioxy)dimethanol</b>	<b>3586-55-8</b>	<b>222-720-6</b>
Route of exposure	oral		
Species	rat		
Method	OECD 408		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>2</b>	<b>Quaternary ammonium compounds, benzyl C12-C16 (even numbered)-alkyldimethyl chlorides</b>	<b>-</b>	<b>939-253-5</b>
Route of exposure	oral		
Species	rat		
Method	OECD 408		
Source	ECHA		

Aspiration hazard
No data available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

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Region: GB

Irritating effects on the skin and mucous membrane. Possibility of sensitisation through skin contact. Sensitisation possible through inhalation. Danger of acute eye damage.

**Other information**

The product was classified on the basis of the calculation procedure of the regulation (EC) No 1272/2008 (CLP).

**SECTION 12: Ecological information****12.1 Toxicity**

<b>Toxicity to fish (acute)</b>			
No	Substance name	CAS no.	EC no.
1	<b>formaldehyde</b>	<b>50-00-0</b>	<b>200-001-8</b>
LC50		6.7	mg/l
Duration of exposure		96	h
Species	Morone saxatilis		
Source	ECHA		
2	<b>propan-2-ol</b>	<b>67-63-0</b>	<b>200-661-7</b>
LC50		9640	mg/l
Duration of exposure		96	h
Species	Pimephales promelas		
Method	OECD 203		
Source	ECHA		
3	<b>Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched</b>	<b>69011-36-5</b>	<b>-</b>
LC50		1	mg/l
Duration of exposure		- 10	h
Species	Cyprinus carpio	96	
Method	OECD 203		
Source	supplier		
4	<b>(ethylenedioxy)dimethanol</b>	<b>3586-55-8</b>	<b>222-720-6</b>
LC50		71	mg/l
Duration of exposure		96	h
Species	Danio rerio		
Method	OECD 203		
Source	ECHA		
5	<b>Glutaral</b>	<b>111-30-8</b>	<b>203-856-5</b>
LC50		10.8	mg/l
Duration of exposure		96	h
Species	Pimephales promelas		
Method	OECD 203		
Source	supplier		
6	<b>didecyldimethylammonium-chloride</b>	<b>7173-51-5</b>	<b>230-525-2</b>
LC50		0.97	mg/l
Duration of exposure		96	h
Species	Danio rerio		
Method	OECD 203		
Source	supplier		
7	<b>Quaternary ammonium compounds, benzyl C12-C16 (even numbered)-alkyldimethyl chlorides</b>	<b>-</b>	<b>939-253-5</b>
LC50		0.456	mg/l
Duration of exposure		96	h
Species	Lepomis macrochirus		
Method	EPA OPP 72-1		
Source	ECHA		
<b>Toxicity to fish (chronic)</b>			
No	Substance name	CAS no.	EC no.
1	<b>Quaternary ammonium compounds, benzyl C12-C16 (even numbered)-alkyldimethyl chlorides</b>	<b>-</b>	<b>939-253-5</b>
NOEC		0.032	mg/l

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Duration of exposure	28	day(s)
Species	Pimephales promelas	
Method	EPA FIFRA	
Source	ECHA	

<b>Toxicity to Daphnia (acute)</b>			
No	Substance name	CAS no.	EC no.
1	<b>formaldehyde</b>	<b>50-00-0</b>	<b>200-001-8</b>
EC50		5.8	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
2	<b>Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched</b>	<b>69011-36-5</b>	<b>-</b>
EC50	1	- 10	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	supplier		
3	<b>(ethylenedioxy)dimethanol</b>	<b>3586-55-8</b>	<b>222-720-6</b>
EC50		28	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
4	<b>Glutaral</b>	<b>111-30-8</b>	<b>203-856-5</b>
EC50		0.69	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	supplier		
5	<b>didecyldimethylammonium-chloride</b>	<b>7173-51-5</b>	<b>230-525-2</b>
EC50		0.057	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	supplier		
6	<b>Quaternary ammonium compounds, benzyl C12-C16 (even numbered)-alkyldimethyl chlorides</b>	<b>-</b>	<b>939-253-5</b>
EC50		0.016	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	EU C.2		
Source	ECHA		

<b>Toxicity to Daphnia (chronic)</b>			
No	Substance name	CAS no.	EC no.
1	<b>formaldehyde</b>	<b>50-00-0</b>	<b>200-001-8</b>
NOEC	>=	6.4	mg/l
Duration of exposure		21	day(s)
Species	Daphnia magna		
Method	OECD 211		
Source	ECHA		
2	<b>Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched</b>	<b>69011-36-5</b>	<b>-</b>
NOEC		2.5	mg/l
Duration of exposure		21	day(s)
Species	Daphnia magna		
Source	supplier		
3	<b>(ethylenedioxy)dimethanol</b>	<b>3586-55-8</b>	<b>222-720-6</b>



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NOEC	8	mg/l
Species	Daphnia magna	
Method	OECD 211	
Source	ECHA	
<b>4</b>	<b>didecyldimethylammonium-chloride</b>	<b>7173-51-5</b> <b>230-525-2</b>
NOEC	0.021	mg/l
Duration of exposure	21	day(s)
Species	Daphnia magna	
Method	OECD 211	
Source	supplier	
<b>5</b>	<b>Quaternary ammonium compounds, benzyl C12-C16 (even numbered)-alkyldimethyl chlorides</b>	<b>939-253-5</b>
NOEC	0.025	mg/l
Duration of exposure	21	day(s)
Species	Daphnia magna	
Method	OECD 211	
Source	ECHA	

<b>Toxicity to algae (acute)</b>		
No	Substance name	CAS no.      EC no.
<b>1</b>	<b>formaldehyde</b>	<b>50-00-0</b> <b>200-001-8</b>
ErC50	4.89	mg/l
Duration of exposure	72	h
Species	Desmodesmus subspicatus	
Method	OECD 201	
Source	ECHA	
<b>2</b>	<b>Poly(oxy-1,2-ethanediy), .alpha.-tridecyl-.omega.-hydroxy-, branched</b>	<b>69011-36-5</b> <b>-</b>
EC50	1	10 mg/l
Duration of exposure	72	h
Species	Desmodesmus subspicatus	
Method	OECD 201	
Source	supplier	
<b>3</b>	<b>(ethylenedioxy)dimethanol</b>	<b>3586-55-8</b> <b>222-720-6</b>
EC50	4.62	mg/l
Duration of exposure	72	h
Species	Desmodesmus subspicatus	
Method	OECD 201	
Source	ECHA	
<b>4</b>	<b>Glutaral</b>	<b>111-30-8</b> <b>203-856-5</b>
EC50	2.64	mg/l
Duration of exposure	72	h
Species	Desmodesmus subspicatus	
Method	OECD 201	
Source	supplier	
<b>5</b>	<b>didecyldimethylammonium-chloride</b>	<b>7173-51-5</b> <b>230-525-2</b>
ErC50	0.053	mg/l
Duration of exposure	72	h
Species	Pseudokirchneriella subcapitata	
Method	OECD 201	
Source	supplier	
<b>6</b>	<b>Quaternary ammonium compounds, benzyl C12-C16 (even numbered)-alkyldimethyl chlorides</b>	<b>939-253-5</b>
EC50	0.03	mg/l
Duration of exposure	72	h
Species	Pseudokirchneriella subcapitata	
Source	ECHA	

<b>Toxicity to algae (chronic)</b>
No data available
<b>Bacteria toxicity</b>

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No	Substance name	CAS no.	EC no.
1	formaldehyde	50-00-0	200-001-8
EC50		19	mg/l
Duration of exposure		3	h
Species	activated sludge		
Method	OECD 209		
Source	ECHA		
2	(ethylenedioxy)dimethanol	3586-55-8	222-720-6
IC50		32	mg/l
Species	activated sludge		
Method	OECD 209		
Source	ECHA		
3	Quaternary ammonium compounds, benzyl C12-C16 - (even numbered)-alkyldimethyl chlorides		939-253-5
IC50		7.75	mg/l
Duration of exposure		3	h
Species	activated sludge		
Method	OECD 209		
Source	ECHA		

## 12.2 Persistence and degradability

Biodegradability			
No	Substance name	CAS no.	EC no.
1	formaldehyde	50-00-0	200-001-8
Type	aerobic biodegradation		
Value		99	%
Duration		28	day(s)
Method	OECD 301 A		
Source	ECHA		
Evaluation	readily biodegradable		
2	propan-2-ol	67-63-0	200-661-7
Type	BOD/COD		
Value		53	%
Duration		5	day(s)
Source	ECHA		
Evaluation	readily biodegradable		
3	(ethylenedioxy)dimethanol	3586-55-8	222-720-6
Value		100	%
Duration		5	day(s)
Method	OECD 301 A		
Source	ECHA		
Evaluation	readily biodegradable		
4	Quaternary ammonium compounds, benzyl C12-C16 - (even numbered)-alkyldimethyl chlorides		939-253-5
Type	aerobic biodegradation		
Value		63	%
Duration		28	day(s)
Method	OECD 301 D		
Source	ECHA		
Evaluation	readily biodegradable		

## 12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water			
No	Substance name	CAS no.	EC no.
1	formaldehyde	50-00-0	200-001-8
log Pow		0.35	
Reference temperature		25	°C
Source	ECHA		
2	propan-2-ol	67-63-0	200-661-7
log Pow		0.05	

# Safety data sheet in accordance with 1907/2006/EC



**Trade name:** Disinfectant solution, not ready to use

**Current version :** 5.1.0, issued: 15.07.2019

**Replaced version:** 5.0.2, issued: 20.09.2018

**Region:** GB

Reference temperature	25	°C
Source	ECHA	
<b>3</b>	<b>(ethylenedioxy)dimethanol</b>	<b>3586-55-8 222-720-6</b>
log Pow	0.35	
Method	OECD 107	
Source	ECHA	
<b>4</b>	<b>Quaternary ammonium compounds, benzyl C12-C16 (even numbered)-alkyldimethyl chlorides</b>	<b>939-253-5</b>
log Pow	2.75	
Method	OECD 107	
Source	ECHA	

## 12.4 Mobility in soil

No data available.

## 12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	
PBT assessment	The components of this product are not considered to be a PBT.
vPvB assessment	The components of this product are not considered to be a vPvB.

## 12.6 Other adverse effects

No data available.

## 12.7 Other information

Other information
Do not discharge into the drains or waters and do not store on public depositories.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Concentrate is not allowed to be disposed together with domestic waste. Concentrate is not allowed to be released into the sewerage.

#### Packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Packaging that cannot be cleaned should be disposed of in agreement with the regional waste disposal company.

## SECTION 14: Transport information

### 14.1 Transport ADR/RID/ADN

Class	3
Classification code	F1
Packing group	III
Hazard identification no.	30
UN number	UN1993
Proper shipping name	FLAMMABLE LIQUID, N.O.S.
Tunnel restriction code	D/E
Label	3
Comments	Limited Quantity LQ: 5 L Excepted Quantity EQ: (E1) 30 ml

Comments: These substances, when carried in individual packagings with a net quantity not exceeding 30 ml / 30 g per individual or inner packaging and a net quantity not exceeding 1 L / 1 kg per outer packaging, are not subject to the other provisions of ADR/RID, provided that the packagings comply with the general provisions of 4.1.1.1.1, 4.1.1.2 and 4.1.1.1.4 to 4.1.1.1.8.

### 14.2 Transport IMDG

# Safety data sheet in accordance with 1907/2006/EC



**Trade name:** Disinfectant solution, not ready to use

**Current version :** 5.1.0, issued: 15.07.2019

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**Region:** GB

Class 3  
 Packing group III  
 UN number UN1993  
 Proper shipping name FLAMMABLE LIQUID, N.O.S.  
 EmS F-E, S-E  
 Label 3

## 14.3 Transport ICAO-TI / IATA

Class 3  
 Packing group III  
 UN number UN1993  
 Proper shipping name Flammable liquid, n.o.s.  
 Label 3

## 14.4 Other information

No data available.

## 14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

## 14.6 Special precautions for user

No data available.

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

Not relevant

## SECTION 15: Regulatory information

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

#### EU regulations

#### **Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

#### **REACH candidate list of substances of very high concern (SVHC) for authorisation**

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

#### **Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES**

The product is considered being subject to REACH regulation (EC) 1907/2006 annexe XVII. No 3, 40

The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

No	Substance name	CAS no.	EC no.	No
1	formaldehyde	50-00-0	200-001-8	28, 72

#### **Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances**

This product is subject to Part I of Annex I, risk category: E1, H2, P5c

If the properties of the substance/product give rise to more than one classification, for the purposes of 2012/18/UE, the lowest qualifying quantities set out in Part 1 and Part 2 of Annex I shall apply.

#### **Directive 2010/75/EU on industrial emissions (integrated pollution prevention and control)**

VOC content	231.42 g/l
VOC-value	8.81 %
Comments	VOC content less water

### 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

**Trade name:** Disinfectant solution, not ready to use

**Current version :** 5.1.0, issued: 15.07.2019

**Replaced version:** 5.0.2, issued: 20.09.2018

**Region:** GB

## SECTION 16: Other information

### Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

### Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

### Notes relating to the identification, classification and labelling of substances and mixtures ((EC) No 1272/2008, Annex VI)

- B** Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.
- D** Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3. However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier must state on the label the name of the substance followed by the words 'non-stabilised'.

### Department issuing safety data sheet

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

### Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

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