

# EU safety data sheet

**Trade name:** KRONES colclean CG WET WR

**Current version :** 2.0.0, issued: 14.12.2020

**Replaced version:** 1.0.1, issued: 24.11.2020

**Region:** GB

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

### 1.1 Product identifier

**Trade name**

**KRONES colclean CG WET WR**

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

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

Conveyor lubricant

**Uses advised against**

No data available.

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

**Address**

KIC KRONES Internationale Cooperationsgesellschaft mbH  
Böhmerwaldstraße 5  
93073 Neutraubling

Telephone no. +49 9401 70-3020

Fax no. +49 9401 70-3696

e-mail kic@kic-krones.com

**Advice on Safety Data Sheet**

sdb\_info@umco.de

### 1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

In case of transport incidents and other emergencies:

+44 (0) 1235 239 670 (NCEC, National Chemical Emergency Centre)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

Eye Dam. 1; H318

**Classification information**

Classification and labelling with respect to corrosivity and irritation to skin are based on toxicological studies performed on the product (mixture).

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

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

**Hazard pictograms**



GHS05

**Signal word**

Danger

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

(Z)-N-9-octadecenylpropane-1,3-diamine

propan-2-ol

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formic acid  
Poly(oxy-1,2-ethanediyl), .alpha.-(carboxymethyl) -.omega.-(octyloxy)-(4-11 EO)

## Hazard statement(s)

H318 Causes serious eye damage.

## Precautionary statement(s)

P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER/doctor.

## 2.3 Other hazards

No data available.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable. The product is not a substance.

### 3.2 Mixtures

#### Hazardous ingredients

No	Substance name	Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration
			%
1	<b>(Z)-N-9-octadecenylpropane-1,3-diamine</b>		
	7173-62-8 230-528-9 - 01-2119487002-46	Acute Tox. 4; H302 Skin Corr. 1B; H314 STOT RE 1; H372 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 5.00 - < 10.00 wt%
2	<b>Alcohols, C16-18, ethoxylated</b>		
	68439-49-6 500-212-8 - -	Eye Irrit. 2; H319	< 2.50 wt%
3	<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	< 2.50 wt%
4	<b>formic acid</b>		pls. refer to footnote (2)
	64-18-6 200-579-1 607-001-00-0 01-2119491174-37	Flam. Liq. 3; H226 Acute Tox. 4; H302 Skin Corr. 1A; H314 Eye Dam. 1; H318 Acute Tox. 3; H331 EUH071	< 2.50 wt%
5	<b>Poly(oxy-1,2-ethanediyl), .alpha.-(carboxymethyl) -.omega.-(octyloxy)-(4-11 EO)</b>		
	53563-70-5 - -	Eye Dam. 1; H318 Skin Irrit. 2; H315	< 2.50 wt%

Full Text for all H-phrases and EUH-phrases: pls. see section 16

(2) According to the latest state of knowledge and applying the criteria set out in annex I to Regulation (EC) No 1272/2008, the aforementioned classification is required. This classification goes beyond the classification set out in table 3, Annex VI to Regulation (CE) No 1272/2008.

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
1	-	-	M = 10	M = 1
4	B	Skin Irrit. 2; H315: C >= 2%	-	-

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		Eye Irrit. 2; H319: C $\geq$ 2% Eye Dam. 1; H318: C $\geq$ 10% Skin Corr. 1B; H314: C $\geq$ 10% Eye Dam. 1; H318: C $\geq$ 90% Skin Corr. 1A; H314: C $\geq$ 90%		
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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

Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing.

#### After inhalation

Remove affected persons from dangerous area by observing suitable respiratory protection measures. Ensure supply of fresh air. In case of persisting adverse effects consult a physician.

#### After skin contact

In case of contact with skin wash off with water. Consult a doctor if skin irritation persists.

#### 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). Get immediate ophthalmic treatment.

#### After ingestion

Rinse the mouth thoroughly with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor immediately.

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

#### Symptoms

burns

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Foam; Extinguishing powder; Water spray jet; Carbon dioxide

#### 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: Toxic gases/vapours

### 5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations. Do not allow run-off from fire fighting to enter drains or water courses.

## SECTION 6: Accidental release measures

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

#### For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation. High risk of slipping due to leakage/spillage of product.

#### For emergency responders

Personal protective equipment (PPE) - see section 8.

### 6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. Prevent spread

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over a wide area (e.g. by containment or oil barriers).

## 6.3 Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13).

## 6.4 Reference to other sections

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

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Advice on safe handling

Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances. 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. Do not inhale vapours. Avoid contact with eyes and skin. Wash hands before breaks and after work. Remove contaminated clothing and shoes and launder thoroughly before reusing. Provide eye wash fountain in work area.

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

#### Technical measures and storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place.

#### 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.

#### Incompatible products

Substances to be avoided, see section 10.

### 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	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
2	formic acid	64-18-6	200-579-1
<b>2006/15/EC</b>			
Formic acid			
	WEL long-term (8-hr TWA reference period)	9	mg/m <sup>3</sup> 5 ppm
<b>List of approved workplace exposure limits (WELs) / EH40</b>			
Formic acid			
	WEL long-term (8-hr TWA reference period)	9.6	mg/m <sup>3</sup> 5 ppm

#### DNEL, DMEL and PNEC values

##### DNEL values (worker)

No	Substance name	CAS / EC no		
	Route of exposure	Exposure time	Effect	Value
1	(Z)-N-9-octadecenylpropane-1,3-diamine			7173-62-8

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				<b>230-528-9</b>
	dermal	Long term (chronic)	systemic	5.6 µg/kg bw/day
	inhalative	Long term (chronic)	systemic	39.5 µg/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>formic acid</b>			<b>64-18-6</b> <b>200-579-1</b>
	inhalative	Long term (chronic)	local	9.5 mg/m <sup>3</sup>
	inhalative	Short term (acut)	systemic	19 mg/m <sup>3</sup>

## DNEL value (consumer)

No	Substance name			CAS / EC no
	Route of exposure	Exposure time	Effect	Value
1	<b>(Z)-N-9-octadecenylpropane-1,3-diamine</b>			<b>7173-62-8</b> <b>230-528-9</b>
	oral	Long term (chronic)	systemic	2 µg/kg bw/day
	dermal	Long term (chronic)	systemic	2 µg/kg bw/day
	inhalative	Long term (chronic)	systemic	6.96 µg/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>formic acid</b>			<b>64-18-6</b> <b>200-579-1</b>
	inhalative	Long term (chronic)	local	3 mg/m <sup>3</sup>
	inhalative	Short term (acut)	systemic	9.5 mg/m <sup>3</sup>

## PNEC values

No	Substance name		CAS / EC no
	ecological compartment	Type	Value
1	<b>propan-2-ol</b>		<b>67-63-0</b> <b>200-661-7</b>
	water	fresh water	140.9 mg/L
	water	Aqua intermittent	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
	soil	-	28 mg/kg
	sewage treatment plant	-	2251 mg/L
	secondary poisoning with reference to: food	-	160 mg/kg
2	<b>formic acid</b>		<b>64-18-6</b> <b>200-579-1</b>
	water	fresh water	2 mg/L
	water	marine water	0.2 mg/L
	water	Aqua intermittent	1 mg/L
	water	fresh water sediment	13.4 mg/kg dry weight
	water	marine water sediment	1.34 mg/kg dry weight
	soil	-	1.5 mg/kg dry weight
	sewage treatment plant	-	7.2 mg/L

## 8.2 Exposure controls

### Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and

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solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn.

## 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

Safety glasses with side protection shield (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 workstation 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.

### 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	
yellowish	
<b>Odour</b>	
characteristic	
<b>Odour threshold</b>	
No data available	
<b>pH value</b>	
Value	4 - 6
<b>Boiling point / boiling range</b>	
Value	appr. 100 °C
<b>Melting point/freezing point</b>	
Value	appr. 0 °C
<b>Decomposition temperature</b>	
No data available	
<b>Flash point</b>	
No data available	
<b>Auto-ignition temperature</b>	
No data available	
<b>Oxidising properties</b>	
not oxidizing	
<b>Explosive properties</b>	
No data available	
<b>Flammability</b>	
No data available	
<b>Lower explosion limit</b>	
No data available	
<b>Upper explosion limit</b>	

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No data available			
<b>Vapour pressure</b>			
No data available			
<b>Relative vapour density</b>			
No data available			
<b>Evaporation rate</b>			
No data available			
<b>Relative density</b>			
Value	0.98		
<b>Density</b>			
No data available			
<b>Solubility in water</b>			
Comments	completely soluble		
<b>Solubility</b>			
No data available			
<b>Partition coefficient n-octanol/water (log value)</b>			
No	Substance name	CAS no.	EC no.
1	(Z)-N-9-octadecenylpropane-1,3-diamine	7173-62-8	230-528-9
	log Pow	0.03	
	Reference temperature	25.7	°C
	Method	OECD 123	
	Source	ECHA	
2	propan-2-ol	67-63-0	200-661-7
	log Pow	0.05	
	Reference temperature	25	°C
	Source	ECHA	
3	formic acid	64-18-6	200-579-1
	log Pow	-2.1	
	Reference temperature	23	°C
	Method	92/69/EEC, A.8	
	Source	ECHA	
<b>Viscosity</b>			
No data available			

## 9.2 Other information

<b>Other information</b>
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

Dangerous reactions are not to be expected when handling product according to its intended use.

### 10.4 Conditions to avoid

None, if handled according to intended use.

### 10.5 Incompatible materials

None known.

### 10.6 Hazardous decomposition products

None, if handled according to intended use.

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## SECTION 11: Toxicological information

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

Acute oral toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	KRONES colclean CG WET WR
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 oral > 2000 mg/kg).

Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	(Z)-N-9-octadecenylpropane-1,3-diamine	7173-62-8	230-528-9
LD50		500	mg/kg bodyweight
Species	rat		
Method	OECD 423		
Source	ECHA		
2	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.		
3	formic acid	64-18-6	200-579-1
LD50		730	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		

Acute dermal toxicity	
No data available	

Acute inhalational toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	KRONES colclean CG WET WR
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 for inhalation: > 20.000 ppmV (gases), > 20 mg/l (vapours), > 5 mg/l (dusts/mists)).

Acute inhalational toxicity			
No	Substance name	CAS no.	EC no.
1	propan-2-ol	67-63-0	200-661-7
LC50		>	10000 ppmV
Duration of exposure		6	h
State of aggregation	Vapour		
Species	rat		
Method	OECD 403		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	formic acid	64-18-6	200-579-1
LC50		7.85	mg/l
Duration of exposure		4	h
State of aggregation	Vapour		
Species	rat		
Method	OECD 403		
Source	ECHA		



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Skin corrosion/irritation	
No	Product Name
1	KRONES colclean CG WET WR
Comments	pH: 4 - 6
Evaluation	non-irritant

Serious eye damage/irritation			
No	Substance name	CAS no.	EC no.
1	propan-2-ol	67-63-0	200-661-7
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	irritant		
Evaluation/classification	Based on available data, the classification criteria are met.		

Respiratory or skin sensitisation			
No	Substance name	CAS no.	EC no.
1	propan-2-ol	67-63-0	200-661-7
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.		
2	formic acid	64-18-6	200-579-1
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.
1	(Z)-N-9-octadecenylpropane-1,3-diamine	7173-62-8	230-528-9
Species	Salmonella typhimurium: TA 1535, TA 1537, TA 98, TA 100; Escherichia coli WP2 uvrA		
Method	OECD 471		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	propan-2-ol	67-63-0	200-661-7
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
3	formic acid	64-18-6	200-579-1
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Reproduction toxicity			
No	Substance name	CAS no.	EC no.
1	(Z)-N-9-octadecenylpropane-1,3-diamine	7173-62-8	230-528-9
Type of examination	oral		
Species	rat		
Method	OECD 416		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	formic acid	64-18-6	200-579-1
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Carcinogenicity	
No data available	

STOT - single exposure	

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No data available			
<b>STOT - repeated exposure</b>			
No	Substance name	CAS no.	EC no.
1	(Z)-N-9-octadecenylpropane-1,3-diamine	7173-62-8	230-528-9
Route of exposure		oral	
Species		rat	
Method		OECD 408	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are met.	
2	propan-2-ol	67-63-0	200-661-7
Route of exposure		inhalational	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
3	formic acid	64-18-6	200-579-1
Route of exposure		inhalational	
NOAEC		0.122	mg/l
Duration of exposure		13	week/s
Species		rat	
Method		OECD 413	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are met.	
<b>Aspiration hazard</b>			
No data available			

## SECTION 12: Ecological information

### 12.1 Toxicity

<b>Toxicity to fish (acute)</b>			
No	Substance name	CAS no.	EC no.
1	propan-2-ol	67-63-0	200-661-7
LC50		9640	mg/l
Duration of exposure		96	h
Species		Pimephales promelas	
Method		OECD 203	
Source		ECHA	
2	formic acid	64-18-6	200-579-1
LC50		130	mg/l
Duration of exposure		96	h
Species		Danio rerio	
with reference to		CAS 540-69-2	
Method		OECD 203	
Source		ECHA	
<b>Toxicity to fish (chronic)</b>			
No data available			
<b>Toxicity to Daphnia (acute)</b>			
No	Substance name	CAS no.	EC no.
1	(Z)-N-9-octadecenylpropane-1,3-diamine	7173-62-8	230-528-9
EC50		290	µg/l
Duration of exposure		48	h
Species		Daphnia magna	
Method		OECD 211	
Source		ECHA	
2	propan-2-ol	67-63-0	200-661-7
EC50		>	10000
Duration of exposure		24	h
Species		Daphnia magna	
Method		OECD 202	
Source		ECHA	

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3	formic acid	64-18-6	200-579-1
EC50		365	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
with reference to	CAS 540-69-2		
Method	OECD 202		
Source	ECHA		

## Toxicity to Daphnia (chronic)

No	Substance name	CAS no.	EC no.
1	(Z)-N-9-octadecenylpropane-1,3-diamine	7173-62-8	230-528-9
NOEC		100	µg/l
Duration of exposure		21	day(s)
Species	Daphnia magna		
Method	OECD 211		
Source	ECHA		

2	formic acid	64-18-6	200-579-1
NOEC	>=	100	mg/l
Duration of exposure		21	day(s)
Species	Daphnia magna		
Method	OECD 211		
Source	ECHA		

## Toxicity to algae (acute)

No	Substance name	CAS no.	EC no.
1	(Z)-N-9-octadecenylpropane-1,3-diamine	7173-62-8	230-528-9
EC50		320 - 1000	µg/l
Duration of exposure		72	h
Species	Desmodesmus subspicatus		
Method	OECD 201		
Source	ECHA		

2	formic acid	64-18-6	200-579-1
EC50	>	1000	mg/l
Duration of exposure		72	h
Species	Desmodesmus subspicatus		
with reference to	CAS 590-29-4		
Method	OECD 201		
Source	ECHA		

## Toxicity to algae (chronic)

No data available

## Bacteria toxicity

No	Substance name	CAS no.	EC no.
1	formic acid	64-18-6	200-579-1
NOEC		72	mg/l
Duration of exposure		13	day(s)
Species	activated sludge		
Method	92/69/EEC, C.3.		
Source	ECHA		

## 12.2 Persistence and degradability

### Biodegradability

No	Substance name	CAS no.	EC no.
1	propan-2-ol	67-63-0	200-661-7
Type	BOD/COD		
Value		53	%
Duration		5	day(s)
Source	ECHA		
Evaluation	readily biodegradable		
2	formic acid	64-18-6	200-579-1
Type	aerobic biodegradation		
Value		100	%

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Duration	14	day(s)
Method	OECD 301 C	
Source	ECHA	
Evaluation	readily biodegradable	

Abiotic Degradation			
No	Substance name	CAS no.	EC no.
1	formic acid	64-18-6	200-579-1
Type		Hydrolysis	
Half-life		119	h
pH value		7	
Reference temperature		50	°C
Method	440/2008/EC C.7.		
Source	ECHA		

## 12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	(Z)-N-9-octadecenylpropane-1,3-diamine	7173-62-8	230-528-9
log Pow		0.03	
Reference temperature		25.7 °C	
Method		OECD 123	
Source		ECHA	
2	propan-2-ol	67-63-0	200-661-7
log Pow		0.05	
Reference temperature		25 °C	
Source		ECHA	
3	formic acid	64-18-6	200-579-1
log Pow		-2.1	
Reference temperature		23 °C	
Method		92/69/EEC, A.8	
Source		ECHA	

## 12.4 Mobility in soil

Mobility in soil			
No	Substance name	CAS no.	EC no.
1	formic acid	64-18-6	200-579-1
log Koc		< 1.25	
Reference temperature		23 °C	
Method		OECD 121	
Source		ECHA	

## 12.5 Results of PBT and vPvB assessment

No data available.

## 12.6 Other adverse effects

No data available.

## 12.7 Other information

Other information
Do not discharge product unmonitored into the environment.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

Disposal of the product should be carried out in accordance with all applicable regulations following consultation with the responsible local authority and the disposal company in an authorised and suitable disposal facility. Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

#### Packaging

Residues must be removed from packaging and when emptied completely disposed of in accordance with the

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regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

## SECTION 14: Transport information

### 14.1 Transport ADR/RID/ADN

Class	8
Classification code	C1
Packing group	II
Hazard identification no.	80
UN number	UN3264
Proper shipping name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
Tunnel restriction code	E
Label	8
Environmentally hazardous substance mark	Symbol "fish and tree"

### 14.2 Transport IMDG

Class	8
Packing group	II
UN number	UN3264
Proper shipping name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
EmS	F-A, S-B
Label	8
Marine pollutant mark	Symbol "fish and tree"

### 14.3 Transport ICAO-TI / IATA

Class	8
Packing group	II
UN number	UN3264
Proper shipping name	Corrosive liquid, acidic, inorganic, n.o.s.
Label	8

### 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 Maritime transport in bulk according to IMO instruments

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, MIXTURES AND ARTICLES**

The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII.	No 3
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## Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is not subject to Part 1 or 2 of Annex I.

## Other regulations

Adhere to the national sanitary and occupational safety regulations when using this product.

## 15.2 Chemical safety assessment

No data available.

## 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.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

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 section.

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

EUH071	Corrosive to the respiratory tract.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H336	May cause drowsiness or dizziness.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic 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.
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### Creation of the safety data sheet

UMCO GmbH - D-21107 Hamburg, Georg-Wilhelm-Strasse 187, Tel.: +49(40)555 546 300, Fax: +49(40)555 546 357, e-mail: umco@umco.de

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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