

# EU safety data sheet

**Trade name:** KRONES colclean CD 2001

**Current version :** 1.0.0, issued: 23.07.2020

**Replaced version:** -, issued: -

**Region:** GB

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

### 1.1 Product identifier

**Trade name**

**KRONES colclean CD 2001**

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

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

Cleaning agent

**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 Irrit. 2; H319

**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

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

**Hazard pictograms**



GHS07

**Signal word**

Warning

**Hazard statement(s)**

H319

Causes serious eye irritation.

**Precautionary statement(s)**

P280

Wear protective gloves/protective clothing/eye protection/face protection.

# EU safety data sheet

Trade name: KRONES colclean CD 2001

Current version : 1.0.0, issued: 23.07.2020

Replaced version: -, issued: -

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P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 If eye irritation persists: Get medical advice/attention.

## 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>citric acid monohydrate</b>		
	5949-29-1 201-069-1 - 01-2119457026-42	Eye Irrit. 2; H319	>= 10.00 - < 25.00 %-b.w.
2	<b>3-butoxypropan-2-ol</b>		
	5131-66-8 225-878-4 603-052-00-8 01-2119475527-28	Eye Irrit. 2; H319 Skin Irrit. 2; H315	< 2.50 %-b.w.
3	<b>l-(+)-lactic acid</b>		
	79-33-4 201-196-2 - 01-2119474164-39	Eye Dam. 1; H318 Skin Irrit. 2; H315	< 2.50 %-b.w.

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

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
2	-	Eye Irrit. 2; H319: C >= 20% Skin Irrit. 2; H315: C >= 20%	-	-

## 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. In case of persisting adverse effects, consult a physician. Adhere to personal protective measures when giving first aid.

#### 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 medical attention if pain still persists.

#### After ingestion

Rinse 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

reddening of the skin; dermatitis; red eyes

# EU safety data sheet

Trade name: KRONES colclean CD 2001

Current version : 1.0.0, issued: 23.07.2020

Replaced version: -, issued: -

Region: GB

## 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

Extinguishing measures to suit surroundings. Water spray jet; Foam; Carbon dioxide; Dry chemical extinguisher

#### 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; Carbon monoxide and carbon dioxide

### 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.

## 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. Remove persons to safety. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. 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 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). Clean contaminated surfaces thoroughly with water.

### 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. Use barrier skin cream.

### 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. 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.

# EU safety data sheet

Trade name: KRONES colclean CD 2001

Current version : 1.0.0, issued: 23.07.2020

Replaced version: -, issued: -

Region: GB

## 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

#### DNEL, DMEL and PNEC values

##### DNEL values (worker)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	3-butoxypropan-2-ol			5131-66-8 225-878-4	
	dermal	Long term (chronic)	systemic	44.00	mg/kg/day
	inhalative	Long term (chronic)	systemic	270.50	mg/m <sup>3</sup>

##### DNEL value (consumer)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	3-butoxypropan-2-ol			5131-66-8 225-878-4	
	oral	Long term (chronic)	systemic	8.75	mg/kg/day
	dermal	Long term (chronic)	systemic	16.00	mg/kg/day
	inhalative	Long term (chronic)	systemic	33.80	mg/m <sup>3</sup>

##### PNEC values

No	Substance name		CAS / EC no	
	ecological compartment	Type	Value	
1	citric acid monohydrate		5949-29-1 201-069-1	
	water	fresh water	0.44	mg/L
	water	marine water	0.044	mg/L
	water	fresh water sediment	34.6	mg/kg
	with reference to: dry weight			
	water	marine water sediment	3.46	mg/kg
	with reference to: dry weight			
	soil	-	33.1	mg/kg
	sewage treatment plant	-	1000	mg/L
2	3-butoxypropan-2-ol		5131-66-8 225-878-4	
	water	fresh water	0.525	mg/L
	water	marine water	0.0525	mg/L
	water	Aqua intermittent	5.25	mg/L
	water	fresh water sediment	2.36	mg/kg
	with reference to: dry weight			
	water	marine water sediment	0.236	mg/kg
	with reference to: dry weight			
	soil	-	0.16	mg/kg
	with reference to: dry weight			
	sewage treatment plant	-	10.00	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 solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn.

#### Personal protective equipment

# EU safety data sheet

Trade name: KRONES colclean CD 2001

Current version : 1.0.0, issued: 23.07.2020

Replaced version: -, issued: -

Region: GB

## 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 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	butyl rubber		
Material thickness	>=	0.5	mm
Breakthrough time	>=	480	min
Appropriate Material	nitrile		
Material thickness	>=	0.5	mm
Breakthrough time	>=	480	min
Appropriate Material	PVC		
Material thickness	>=	0.5	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			
orange			
<b>Odour</b>			
characteristic			
<b>Odour threshold</b>			
No data available			
<b>pH value</b>			
Value		2.1	
Reference temperature		20	°C
Concentration		100	%
<b>Boiling point / boiling range</b>			
No data available			
<b>Melting point / melting range</b>			
No data available			
<b>Decomposition point / decomposition range</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			

# EU safety data sheet

Trade name: KRONES colclean CD 2001

Current version : 1.0.0, issued: 23.07.2020

Replaced version: -, issued: -

Region: GB

<b>Explosive properties</b>			
The product does not have explosive properties.			
<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	1.05	g/cm <sup>3</sup>	
Reference temperature	20	°C	
<b>Solubility in water</b>			
Comments	miscible		
<b>Solubility(ies)</b>			
No data available			
<b>Partition coefficient: n-octanol/water</b>			
No	Substance name	CAS no.	EC no.
1	citric acid monohydrate	5949-29-1	201-069-1
	log Pow	-0.2	- 1.8
2	3-butoxypropan-2-ol	5131-66-8	225-878-4
	log Pow		1.1
	Reference temperature		20 °C
	with reference to	pH 7	
	Source	ECHA	
3	l-(+)-lactic acid	79-33-4	201-196-2
	log Pow	appr.	-0.54
	Reference temperature		25 °C
	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

No data available.

### 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

# EU safety data sheet

Trade name: KRONES colclean CD 2001

Current version : 1.0.0, issued: 23.07.2020

Replaced version: -, issued: -

Region: GB

None, if handled according to intended use.

## 10.5 Incompatible materials

Alkalis; strong oxidizing agents

## 10.6 Hazardous decomposition products

None, if handled according to intended use.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	citric acid monohydrate	5949-29-1	201-069-1
LD50		5400	mg/kg bodyweight
Species	mouse		
Method	OECD 401		
Source	ECHA		
2	3-butoxypropan-2-ol	5131-66-8	225-878-4
LD50		3300	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
3	l-(+)-lactic acid	79-33-4	201-196-2
LD50		3543	mg/kg bodyweight
Species	rat (female)		
Method	EPA OPP 81-1		
Source	ECHA		

Acute dermal toxicity			
No	Substance name	CAS no.	EC no.
1	citric acid monohydrate	5949-29-1	201-069-1
LD50		>	2000 mg/kg bodyweight
Species	rat		
Method	OECD 402		
Source	ECHA		
2	3-butoxypropan-2-ol	5131-66-8	225-878-4
LD50		>	2000 mg/kg bodyweight
Species	rat		
Source	ECHA		
3	l-(+)-lactic acid	79-33-4	201-196-2
LD50		>	2000 mg/kg bodyweight
Species	rabbit		
Method	EPA OPP 81-2		
Source	ECHA		

Acute inhalational toxicity			
No	Substance name	CAS no.	EC no.
1	l-(+)-lactic acid	79-33-4	201-196-2
LC50		>	7.94 mg/l
Duration of exposure		4	h
State of aggregation	Dust/mist		
Species	rat		
Method	OECD 403		
Source	ECHA		

Skin corrosion/irritation			
No	Substance name	CAS no.	EC no.
1	citric acid monohydrate	5949-29-1	201-069-1
Species	rabbit		
Method	OECD 404		
Source	ECHA		

# EU safety data sheet

Trade name: KRONES colclean CD 2001

Current version : 1.0.0, issued: 23.07.2020

Replaced version: -, issued: -

Region: GB

Evaluation	non-irritant		
<b>2</b>	<b>3-butoxypropan-2-ol</b>	<b>5131-66-8</b>	<b>225-878-4</b>
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	irritant		

Serious eye damage/irritation			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>citric acid monohydrate</b>	<b>5949-29-1</b>	<b>201-069-1</b>
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	non-irritant		
Evaluation/classification	Based on available data, the classification criteria are met.		
<b>2</b>	<b>l-(+)-lactic acid</b>	<b>79-33-4</b>	<b>201-196-2</b>
Source	ECHA		
Evaluation	Irreversible effects on the eye		

Respiratory or skin sensitisation			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>3-butoxypropan-2-ol</b>	<b>5131-66-8</b>	<b>225-878-4</b>
Route of exposure	Skin		
Species	guinea pig		
Method	OECD 406		
Source	ECHA		
Evaluation	non-sensitizing		

Germ cell mutagenicity			
No data available			

Reproduction toxicity			
No data available			

Carcinogenicity			
No data available			

STOT - single exposure			
No data available			

STOT - repeated exposure			
No data available			

Aspiration hazard			
No data available			

## SECTION 12: Ecological information

### 12.1 Toxicity

Toxicity to fish (acute)			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>3-butoxypropan-2-ol</b>	<b>5131-66-8</b>	<b>225-878-4</b>
LC50	560	- 1000	mg/l
Duration of exposure		96	h
Species	Poecilia reticulata		
Method	OECD 203		
Source	ECHA		

Toxicity to fish (chronic)			
No data available			

Toxicity to Daphnia (acute)			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>citric acid monohydrate</b>	<b>5949-29-1</b>	<b>201-069-1</b>



# EU safety data sheet

Trade name: KRONES colclean CD 2001

Current version : 1.0.0, issued: 23.07.2020

Replaced version: -, issued: -

Region: GB

EC50		1535	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Source	ECHA		
<b>2</b>	<b>3-butoxypropan-2-ol</b>	<b>5131-66-8</b>	<b>225-878-4</b>
EC50	>	1000	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		

#### Toxicity to Daphnia (chronic)

No data available

#### Toxicity to algae (acute)

No data available

#### Toxicity to algae (chronic)

No data available

#### Bacteria toxicity

No data available

## 12.2 Persistence and degradability

Biodegradability			
No	Substance name	CAS no.	EC no.
1	3-butoxypropan-2-ol	5131-66-8	225-878-4
Value		90	%
Duration		28	day(s)
Method	OECD 301 E		
Source	ECHA		
Evaluation	readily biodegradable		

## 12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water			
No	Substance name	CAS no.	EC no.
1	citric acid monohydrate	5949-29-1	201-069-1
log Pow		-0.2	- 1.8
<b>2</b>	<b>3-butoxypropan-2-ol</b>	<b>5131-66-8</b>	<b>225-878-4</b>
log Pow		1.1	
Reference temperature		20	°C
with reference to	pH 7		
Source	ECHA		
<b>3</b>	<b>l-(+)-lactic acid</b>	<b>79-33-4</b>	<b>201-196-2</b>
log Pow	appr.	-0.54	
Reference temperature		25	°C
Source	ECHA		

## 12.4 Mobility in soil

No data available.

## 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

# EU safety data sheet

Trade name: KRONES colclean CD 2001

Current version : 1.0.0, issued: 23.07.2020

Replaced version: -, issued: -

Region: GB

## 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

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

The product is not subject to ADR/RID/ADN regulations.

### 14.2 Transport IMDG

The product is not subject to IMDG regulations.

### 14.3 Transport ICAO-TI / IATA

The product is not subject to ICAO-TI / IATA regulations.

### 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
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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.

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

VOC content	1.9	%
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#### Other regulations

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

### 15.2 Chemical safety assessment

No data available.

# EU safety data sheet

**Trade name:** KRONES colclean CD 2001

**Current version :** 1.0.0, issued: 23.07.2020

**Replaced version:** -, issued: -

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## 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)

H315 Causes skin irritation.

H318 Causes serious eye damage.

### Creation of the 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.

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