KRONES colclean CD 2001

Safety Data Sheet

According to the United Nations GHS (Rev. 8, 2019)

Issue date:28/09/2020 Revision date: 28/09/2020 : Version: 1.0

SECTION 1: Identification

1.1. GHS Product identifier

Product form : Mixture

Trade name : KRONES colclean CD 2001

1.2. Other means of identification

Other means of identification : No information available

1.3. Recommended use of the chemical and restrictions on use

Recommended use : Cleaning agent

Restrictions on use : No information available

1.4. Supplier's details

Supplier

KIC KRONES Internationale Cooperationsgesellschaft mbH
Böhmerwaldstraße 5
93073 Neutraubling
Germany
T +49-940170-3020
F +49-940170-3696
kic@kic-krones.com

Importer

KRONES LCS Center West Africa Ltd.
Acme Road, Ogba Industrial Scheme, Plot 7A, Block C
100211 Ikeja - Lago
Nigeria
T +234 1 463 11 30
helmut.rumm@krones.com.ng

1.5. Emergency phone number

Emergency number : +44 1235 239671 (NCEC, National Chemical Emergency Centre)

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

Serious eye damage/eye irritation, Category 2 H319

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects : Causes serious eye irritation.

2.2. GHS Label elements, including precautionary statements

Labelling according to the United Nations GHS

Hazard pictograms (GHS UN) :

Signal word (GHS UN) : Warning

Hazard statements (GHS UN) : H319 - Causes serious eye irritation

Precautionary statements (GHS UN) : P264 - Wash thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing 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.
P337+P313 - If eye irritation persists: Get medical advice/attention.

2.3. Other hazards which do not result in classification

Other hazards not contributing to the classification : No information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
Citric acid monohydrate	(CAS-No.) 5949-29-1	>= 10.00 - < 25.00
1-Butoxy-2-propanol	(CAS-No.) 5131-66-8	< 2.50

L-Lactic acid	(CAS-No.) 79-33-4	< 2.50

SECTION 4: First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures general : In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or a doctor.

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

First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Do NOT induce vomiting. Rinse mouth out with water. Never give anything by mouth to an unconscious person. Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms/effects, acute and delayed

Most Important Symptoms/Effects : Causes serious eye irritation.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire. Water spray, foam, carbon dioxide, extinguishing powder.

Unsuitable extinguishing media : High volume water jet.

5.2. Specific hazards arising from the chemical

Fire hazard : No data available.

Reactivity in case of fire : Product is not explosive.

Hazardous decomposition products in case of fire : Toxic fumes may be released: toxic gases/vapours, carbon monoxide and carbon dioxide.

5.3. Special protective actions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Remove person to uncontaminated area. Remove all sources of ignition. Ensure adequate ventilation, especially in confined areas. Do not breathe gas/fumes/vapour/spray. Do not eat, drink or smoke during use. Wash thoroughly after handling.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment. Do not allow into drains or water courses. Advise local authorities if considered necessary.

6.3. Methods and materials for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Absorb remaining liquid with sand or inert absorbent and remove to safe place.

Other information : Dispose of materials or solid residues at an authorized site.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe gas/fumes/vapour/spray.

Hygiene measures : Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in original container. Keep container tightly closed. Containers which are opened should be properly resealed and kept upright to prevent leakage.

Storage area	:	Store in a well-ventilated place. Keep cool. Protect from heat and direct sunlight.
Storage temperature	:	No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls	:	Keep away from open flames, hot surfaces and sources of ignition. Ensure good ventilation of the work station.
Environmental exposure controls	:	Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment (PPE)

Hand protection	:	Protective gloves (EN 374) 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
Eye protection	:	Safety glasses with side shields (EN 166).
Skin and body protection	:	Use chemically protective clothing.
Respiratory protection	:	In case of insufficient ventilation, wear suitable respiratory equipment
Thermal hazard protection	:	No information available.

8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	:	Liquid
Appearance	:	Liquid
Colour	:	Orange.
Odour	:	Characteristic.
Odour threshold	:	Not available
Melting point	:	Not available
Freezing point	:	Not available
Boiling point	:	Not available
Flammability (solid, gas)	:	Non flammable
Explosive limits	:	Not available
Lower explosive limit (LEL)	:	Not available
Upper explosive limit (UEL)	:	Not available
Flash point	:	Not available
Auto-ignition temperature	:	Not available
Decomposition temperature	:	Not available
pH	:	2.1 (20 °C, 100%)
pH solution	:	Not available
Viscosity, kinematic	:	Not available
Viscosity, dynamic	:	Not available
Partition coefficient n-octanol/water (Log Kow)	:	Citric acid monohydrate (5949-29-1): -0.2 - 1.8 1-Butoxy-2-propanol (5131-66-8): 1.1 (20 °C, pH = 7, ECHA) L-Lactic acid (79-33-4): Ca. -0.54 (25 °C, ECHA)
Vapour pressure	:	Not available

Vapour pressure at 50 °C	:	Not available
Density	:	1.05 g/cm³ (20 °C)
Relative density	:	Not available
Relative vapour density at 20 °C	:	Not available
Solubility	:	Miscible with water
Explosive properties	:	No data available
Oxidising properties	:	No data available

9.2. Data relevant with regard to physical hazard classes (supplemental)
No additional information available

SECTION 10: Stability and reactivity
10.1. Reactivity
The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid
Heat, flames, sparks. Incompatible materials.

10.5. Incompatible materials
Alkalis. Strong oxidizing agents.

10.6. Hazardous decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information
11.1. Information on toxicological effects
Acute toxicity (oral)	:	Not classified
Acute toxicity (dermal)	:	Not classified
Acute toxicity (inhalation)	:	Not classified

Citric acid monohydrate (5949-29-1)	
LD50 oral mouse	5400 mg/kg (OECD 401, ECHA)
LD50 dermal rat	> 2000 mg/kg (OECD 402, ECHA)

1-Butoxy-2-propanol (5131-66-8)	
LD50 oral rat	1900 mg/kg
LD50 oral rat	3300 mg/kg (OECD 401, ECHA)
LD50 dermal rat	> 2000 mg/kg (ECHA)

L-Lactic acid (79-33-4)	
LD50 oral rat	3730 mg/kg
LD50 oral rat (female)	3543 mg/kg (EPA OPP 81-1, ECHA)
LD50 dermal rabbit	> 2000 mg/kg (EPA OPP 81-2, ECHA)
LC50 Inhalation - Rat (Dust/Mist)	> 7.94 mg/L/4h (OECD 403, ECHA)

Skin corrosion/irritation : Not classified
pH: 2.1 (20 °C, 100%)
Citric acid monohydrate: non-irritant (rabbit, OECD 404, ECHA)
1-Butoxy-2-propanol: irritant (rabbit, OECD 404, ECHA)

Serious eye damage/irritation : Causes serious eye irritation.
pH: 2.1 (20 °C, 100%)
Citric acid monohydrate: non-irritant (rabbit, OECD 405, ECHA)
L-Lactic acid: Irreversible effects on the eye (ECHA)

Respiratory or skin sensitisation : Not classified
1-Butoxy-2-propanol: non-sensitizing (Skin, guinea pig, OECD 406, ECHA)

Germ cell mutagenicity : Not classified

Carcinogenicity	:	Not classified
Reproductive toxicity	:	Not classified
STOT-single exposure	:	Not classified
STOT-repeated exposure	:	Not classified
Aspiration hazard	:	Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	:	The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	:	Not classified
Hazardous to the aquatic environment, long-term (chronic)	:	Not classified

Citric acid monohydrate (5949-29-1)	
EC50 Daphnia 1	1535 mg/L/48 h (Daphnia magna, ECHA)

1-Butoxy-2-propanol (5131-66-8)	
LC50 fish 1	560 - 1000 mg/L/96 h (Poecilia reticulata, OECD 203, ECHA)
EC50 Daphnia 1	> 1000 mg/L/48 h (Daphnia magna, OECD 202, ECHA)

12.2. Persistence and degradability

1-Butoxy-2-propanol (5131-66-8)	
Persistence and degradability	Readily biodegradable.
Biodegradation	90 % (28 d, OECD 301 E, ECHA)

12.3. Bioaccumulative potential

Citric acid monohydrate (5949-29-1)	
Partition coefficient n-octanol/water (Log Kow)	-0.2 - 1.8

1-Butoxy-2-propanol (5131-66-8)	
Partition coefficient n-octanol/water (Log Kow)	1.1 (20 °C, pH = 7, ECHA)

L-Lactic acid (79-33-4)	
Partition coefficient n-octanol/water (Log Kow)	Ca. -0.54 (25 °C, ECHA)

12.4. Mobility in soil

KRONES colclean CD 2001	
Mobility in soil	No additional information available

12.5. Other adverse effects

Ozone	:	Not classified
Other adverse effects	:	No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods	:	Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	:	Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with IMDG / IATA / UN RTDG

UN RTDG	IMDG	IATA
14.1. UN number		
Not regulated for transport		

14.2. UN Proper Shipping Name		
Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)		
Not applicable	Not applicable	Not applicable
14.4. Packing group		
Not applicable	Not applicable	Not applicable
14.5. Environmental hazards		
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No
No supplementary information available		

14.6. Special precautions for user

- UN RTDG
No data available
- IMDG
No data available
- IATA
No data available

14.7. Transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations specific for the product in question

Citric acid monohydrate (5949-29-1)

Listed on the Canadian DSL (Domestic Substances List)
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)

1-Butoxy-2-propanol (5131-66-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on the Canadian DSL (Domestic Substances List)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)

L-Lactic acid (79-33-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on the Canadian DSL (Domestic Substances List)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Japanese ISHL (Industrial Safety and Health Law)
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Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)

SECTION 16: Other information

Issue date : 28/09/2020

Revision date : 28/09/2020

Indication of changes:
No information available.

Abbreviations and acronyms : ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road
EC50 - Median effective concentration
IATA - International Air Transport Association
IMDG - International Maritime Dangerous Goods
LC50 - Median lethal concentration
LD50 - Median lethal dose
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS - Safety Data Sheet

Data sources : ECHA reference. LOLI.

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.

Other information : No information available.

Full text of H-statements:	
H319	Causes serious eye irritation

SDS UN

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