

KRONES colclean CD 2090

Safety Data Sheet

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

Issue date: 18/08/2020

Revision date: 18/08/2020

Version: 1.0

SECTION 1: Identification

1.1. GHS Product identifier

Product form : Mixture
Trade name : KRONES colclean CD 2090

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 - Lagos
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

Skin corrosion/irritation, Category 2 H315
Serious eye damage/eye irritation, Category 2 H319
Full text of H statements : see section 16

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

2.2. GHS Label elements, including precautionary statements

Labelling according to the United Nations GHS

Hazard pictograms (GHS UN) :



GHS07

Signal word (GHS UN) : Warning

Hazard statements (GHS UN) : H315 - Causes skin irritation
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.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321 - Specific treatment on this label.
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.

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

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3.2. Mixtures

Name	Product identifier	%
Butanedioic acid, 2(or3)-sulfo-, 4-[2-[(1-oxo(C12-C18(even numbered) and C18 unsaturated)alkyl)amino]ethyl]esters, disodium salts	(EC-No.) 939-637-2	>= 5.00 - < 10.00
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	(CAS-No.) 85586-07-8	>= 5.00 - < 10.00
1,2-Benzisothiazol-3(2H)-one	(CAS-No.) 2634-33-5	< 0.05
5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone	(CAS-No.) 55965-84-9	< 0.10

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 skin irritation. 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, chemical 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: carbon monoxide, carbon dioxide, phosphorus oxides, sulphur oxides, nitrogen oxides.

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.
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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 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".
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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	: Take up liquid spill into absorbent material. Absorb remaining liquid with sand or inert absorbent and remove to safe place.

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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 : Room temperature

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
Material thickness: ≥ 0.5 mm
Breakthrough time: ≥ 480 min
Appropriate Material: neoprene
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 : Colourless.

Odour : Characteristic.

Odour threshold : Not available

Melting point : Not available

Freezing point : Not available

Boiling point : 100 °C

Flammability (solid, gas) : Non flammable

Explosive limits : Not available

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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	: 6
pH solution	: Not available
Viscosity, kinematic (calculated value) (40 °C)	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Butanedioic acid, 2(or3)-sulfo-, 4-[2-[(1-oxo(C12-C18(even numbered) and C18 unsaturated)alkyl)amino]ethyl]esters, disodium salts (EC-No. 939-637-2): -5 (20 °C, OECD 107, ECHA) Sulfuric acid, mono-C12-14-alkyl esters, sodium salts (85586-07-8): -2.42 (20 °C, OECD 107, ECHA) 1,2-Benzisothiazol-3(2H)-one (2634-33-5): 1.3 (25 °C)
Vapour pressure	: Not available
Vapour pressure at 50 °C	: Not available
Density	: 1.03 g/cm ³ (20 °C)
Relative density	: Not available
Relative vapour density at 20 °C	: Not available
Solubility	: Soluble in 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

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No information available.

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

Butanedioic acid, 2(or3)-sulfo-, 4-[2-[(1-oxo(C12-C18(even numbered) and C18 unsaturated)alkyl)amino]ethyl]esters, disodium salts (EC-No. 939-637-2)

LD50 oral rat	> 2000 mg/kg (OECD 423, ECHA)
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LD50 dermal rabbit	> 2000 mg/kg (OECD 402, ECHA)
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Sulfuric acid, mono-C12-14-alkyl esters, sodium salts (85586-07-8)

LD50 oral rat	> 1000 mg/kg
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LD50 oral rat	2000 mg/kg (ECHA)
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LD50 dermal rabbit	> 2000 mg/kg (OECD 402, ECHA)
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1,2-Benzisothiazol-3(2H)-one (2634-33-5)

LD50 oral rat	1020 mg/kg
LD50 oral	670 mg/kg

5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone (55965-84-9)

LD50 oral rat	53 mg/kg
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Skin corrosion/irritation	: Causes skin irritation. pH: 6 Sulfuric acid, mono-C12-14-alkyl esters, sodium salts: irritant (rabbit, OECD 404, ECHA)
Serious eye damage/irritation	: Causes serious eye irritation. pH: 6 Sulfuric acid, mono-C12-14-alkyl esters, sodium salts: strongly irritant (rabbit, OECD 405, ECHA)
Respiratory or skin sensitisation	: Not classified Butanedioic acid, 2(or3)-sulfo-, 4-[2-[(1-oxo(C12-C18(even numbered) and C18 unsaturated)alkyl)amino]ethyl]esters, disodium salts: non-sensitizing (Skin, guinea pig, OECD 406, ECHA) Sulfuric acid, mono-C12-14-alkyl esters, sodium salts: non-sensitizing (Skin, guinea pig, OECD 406, ECHA)
Germ cell mutagenicity	: Not classified Butanedioic acid, 2(or3)-sulfo-, 4-[2-[(1-oxo(C12-C18(even numbered) and C18 unsaturated)alkyl)amino]ethyl]esters, disodium salts: Based on available data, the classification criteria are not met (OECD 471, ECHA) Sulfuric acid, mono-C12-14-alkyl esters, sodium salts: Based on available data, the classification criteria are not met (ECHA)
Carcinogenicity	: Not classified Sulfuric acid, mono-C12-14-alkyl esters, sodium salts: Based on available data, the classification criteria are not met (ECHA)
Reproductive toxicity	: Not classified Butanedioic acid, 2(or3)-sulfo-, 4-[2-[(1-oxo(C12-C18(even numbered) and C18 unsaturated)alkyl)amino]ethyl]esters, disodium salts: Based on available data, the classification criteria are not met (OECD 422, ECHA)
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified Butanedioic acid, 2(or3)-sulfo-, 4-[2-[(1-oxo(C12-C18(even numbered) and C18 unsaturated)alkyl)amino]ethyl]esters, disodium salts: Based on available data, the classification criteria are not met (OECD 422, ECHA) Sulfuric acid, mono-C12-14-alkyl esters, sodium salts: NOAEL = 488 mg/kg. Based on available data, the classification criteria are not met (13 week/s, rat, OECD 408)
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

Butanedioic acid, 2(or3)-sulfo-, 4-[2-[(1-oxo(C12-C18(even numbered) and C18 unsaturated)alkyl)amino]ethyl]esters, disodium salts (EC-No. 939-637-2)

LC50 fish 1	>= 32 mg/L/96 h (Danio rerio, OECD 203, ECHA)
EC50 Daphnia 1	19 mg/L/48 h (Daphnia magna, OECD 202, ECHA)
NOEC Daphnia 1	> 3.6 mg/L (Daphnia magna, OECD 211, ECHA)
ErC50 algae 1	2.6 mg/L/72 h (Desmodesmus subspicatus, OECD 201, ECHA)

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Sulfuric acid, mono-C12-14-alkyl esters, sodium salts (85586-07-8)

LC50 fish 1	10 - 100 mg/L/96 h (Brachydanio rerio)
LC50 fish 2	2.5 mg/L/96 h (Pimephales promelas)
LC50 fish 3	3.6 mg/L/96 h (Oncorhynchus mykiss, OECD 203, ECHA)
NOEC fish 1	0.11 - 0.35 mg/L/34 d (Pimephales promelas, OECD 210, ECHA)
EC50 Daphnia 1	2.8 mg/L/48 h (Daphnia magna)
EC50 Daphnia 2	4.7 mg/L/48 h (Daphnia magna, EC 92/69, ECHA)
ErC50 algae 1	27 mg/L/72 h (Selenastrum capricornutum, OECD 201, ECHA)

12.2. Persistence and degradability

Butanedioic acid, 2(or3)-sulfo-, 4-[2-[(1-oxo(C12-C18(even numbered) and C18 unsaturated)alkyl)amino]ethyl]esters, disodium salts (EC-No. 939-637-2)

Persistence and degradability	Readily biodegradable.
Biodegradation	77 % (28 d, OECD 301 B, ECHA)

Sulfuric acid, mono-C12-14-alkyl esters, sodium salts (85586-07-8)

Persistence and degradability	Readily biodegradable.
Biodegradation	75.7 % (28 d, OECD 301 B, ECHA)

12.3. Bioaccumulative potential

Butanedioic acid, 2(or3)-sulfo-, 4-[2-[(1-oxo(C12-C18(even numbered) and C18 unsaturated)alkyl)amino]ethyl]esters, disodium salts (EC-No. 939-637-2)

Partition coefficient n-octanol/water (Log Kow)	-5 (20 °C, OECD 107, ECHA)
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Sulfuric acid, mono-C12-14-alkyl esters, sodium salts (85586-07-8)

Partition coefficient n-octanol/water (Log Kow)	-2.42 (20 °C, OECD 107, ECHA)
BCF fish 1	2.1 - 11

1,2-Benzisothiazol-3(2H)-one (2634-33-5)

Partition coefficient n-octanol/water (Log Kow)	1.3 (25 °C)
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12.4. Mobility in soil

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Mobility in soil	No information available.
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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

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

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

Sulfuric acid, mono-C12-14-alkyl esters, sodium salts (85586-07-8)

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 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 the TCSI (Taiwan Chemical Substance Inventory)

1,2-Benzisothiazol-3(2H)-one (2634-33-5)

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)

5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone (55965-84-9)

Listed on the Canadian DSL (Domestic Substances List)
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 the TCSI (Taiwan Chemical Substance Inventory)

SECTION 16: Other information

Issue date : 18/08/2020
Revision date : 18/08/2020

Indication of changes:

No information available.

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

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:	
H315	Causes skin irritation
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.