

Safety Data Sheet

Trade name: KRONES colclean DI 8004

Current version : 2.1.0, issued: 27.04.2020

Replaced version: 2.0.1, issued: 30.03.2020

Region: USA

SECTION 1: Identification

1.1 Product identifier

Trade name

KRONES colclean DI 8004

1.2 Recommended use of the chemical and restrictions on use

Recommended use of the chemical and restrictions on use

Disinfectant Precursor

Restrictions on use

No data available.

1.3 Details of the supplier of the safety data sheet

Address

KRONES INC.

9600 SOUTH 58TH STREET

PO BOX 321801

Franklin

WI 53132-6241

Telephone no. 001-414-409-4000

Fax no. 001-414-409-4140

e-mail sales@kronesusa.com

1.4 Emergency phone number

+1 866 928 0789 (Toll free)

SECTION 2: Hazard(s) identification

2.1 Classification of the chemical

Classification of the chemical in accordance with paragraph (d) of 29 CFR § 1910.1200 "Hazard Communication"

Serious Eye Damage - Category 1

Corrosive to Metals - Category 1

Skin Corrosion / Irritation - Category 1A

2.2 Label elements

Pictogram(s)



Signal word

Danger

Hazard Statement(s)

Physical hazards

May be corrosive to metals

Health hazards

Causes severe skin burns and eye damage

Precautionary Statement(s)

Prevention

Keep only in original container.

Do not breathe dust/fume/gas/mist/ vapors/spray.

Wash thoroughly after handling.

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

Response

If swallowed: Rinse mouth. Do NOT induce vomiting.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a poison center/doctor.

Safety Data Sheet

Trade name: KRONES colclean DI 8004

Current version : 2.1.0, issued: 27.04.2020

Replaced version: 2.0.1, issued: 30.03.2020

Region: USA

Storage Specific treatment (see first aid instruction on this label).
Wash contaminated clothing before reuse.
Absorb spillage to prevent material damage.
Store locked up.
Store in corrosive resistant container with a resistant inner liner.
Disposal Dispose of contents/container in accordance with
local/regional/national/international regulations

2.3 Labelling information

No data available

2.4 Hazards not otherwise classified (HNOC)

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	Concentration	%
	CAS no.		
1	sulphuric acid		
	7664-93-9	>= 25.00 - < 50.00	%-b.w.
2	glycolic-acid		
	79-14-1	< 5.00	%-b.w.
3	2-phosphonobutane-1,2,4-tricarboxylic acid		
	37971-36-1	< 2.50	%-b.w.

SECTION 4: First-aid measures

4.1 Description of necessary 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. Do not use mouth-to-mouth or mouth-to-nose resuscitation. In case of persisting adverse effects, consult a physician.

After skin contact

Wash immediately with plenty of water for several minutes. Take for medical treatment.

After eye contact

Remove contact lens. 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 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: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Product itself is non-combustible; use fire extinguishing measures in surrounding areas as necessary.

Safety Data Sheet

Trade name: KRONES colclean DI 8004

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Unsuitable extinguishing media

Full water jet

5.2 Specific hazards arising from the chemical

In the event of fire, the following can be released: Sulfur oxides (SxOy); Phosphorus oxides; Carbon dioxide (CO₂); Carbon monoxide (CO)

5.3 Special protective equipment and precautions for fire-fighters

Use self-contained breathing apparatus. Wear protective clothing. Cool endangered containers with water spray jet. 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. Use personal protective clothing.

For emergency responders

Personal protective equipment (PPE) - see Section 8.

6.2 Methods and materials for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in suitable container for disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Precautions for safe handling

Risks inherent to handling the product must be minimised by applying 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 of working 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. Hold emergency shower available. 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 resealed and kept upright to prevent leakage. Always keep in containers of same material as the original.

Incompatible products

Substances to be avoided: see chapter 10.

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Occupational exposure limit(s)

No	Substance name	CAS no.
1	sulphuric acid	7664-93-9
ACGIH Threshold Limit Values		
Sulfuric acid		
	TWA	0,2 (T) mg/m ³
	Remarks	A2; (M)
OSHA Permissible Exposure Limits (PELS)		
Sulfuric acid		
	TWA	1 mg/m ³

Safety Data Sheet

Trade name: KRONES colclean DI 8004

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Replaced version: 2.0.1, issued: 30.03.2020

Region: USA

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 ExposureLimit), suitable respiratory protection must be worn.

Individual protection measures, such as personal protective equipment

Respiratory protection

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. In case of aerosol and mist formation, wear appropriate, properly fitting OSHA, MSHA or NIOSH approved respirator.

Eye / face protection

Wear appropriate protective eye glasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133.

Hand protection

Before use, the protective glove 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.

Other protection measures

Chemical-resistant work clothes. Acid-resistant protective clothing

SECTION 9: Physical and chemical properties

Form/Color			
liquid			
colorless; clear			
Odor			
slightly pungent			
Odor threshold			
No data available			
pH value			
Value	<	1	
Concentration		1	%
Boiling point / boiling range			
Value	>	100	°C
Melting point / melting range			
Value	<	0	°C
Decomposition point / decomposition range			
No data available			
Flash point			
No data available			
Auto-ignition temperature			
No data available			
Oxidising properties			
No data available			
Explosive properties			
No data available			
Flammability (solid, gas)			
No data available			
Lower flammability or explosive limits			
No data available			

Safety Data Sheet

Trade name: KRONES colclean DI 8004

Current version : 2.1.0, issued: 27.04.2020

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Region: USA

Upper flammability or explosive limits

No data available

Vapor pressure

No data available

Vapor density

No data available

Evaporation rate

No data available

Relative density

No data available

Density

Value	1.25	g/cm ³
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Solubility in water

No data available

Solubility(ies)

No data available

Partition coefficient: n-octanol/water

No data available

Viscosity

No data available

Other information

Other information

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable at ambient temperature.

10.2 Chemical stability

Stable under recommended storage and handling conditions(See section 7). The product is Hygroscopic

10.3 Possibility of hazardous reactions

Reactions with metals, with evolution of hydrogen.

10.4 Conditions to avoid

strong heat

10.5 Incompatible materials

Alkalies; Acids; Metals; Amines; Water; organic materials; Oxidizing agents; Reducing agents

10.6 Hazardous decomposition products

None, if handled according to intended use.

SECTION 11: Toxicological information

Information on toxicological effects

Acute oral toxicity

No	Substance name	CAS no.
1	glycolic-acid	79-14-1
LD50		2040 mg/kg bodyweight
Species	rat	
Method	EPA OPP 81-1	
Source	ECHA	

Acute dermal toxicity

Safety Data Sheet

Trade name: KRONES colclean DI 8004

Current version : 2.1.0, issued: 27.04.2020

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Region: USA

No data available	
Acute inhalational toxicity (result of the ATE calculation for the mixture)	
Remarks	The result of the applied additivity formula according to CFR (Code of Federal Regulations), Title 29, §1910.1200 "Hazard Communication", section A.1.3 is outside the values that imply a classification / labelling of this mixture according to table A.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.	
1	glycolic-acid	79-14-1	
LC50		3.6	mg/l
Duration of exposure		4	h
State of aggregation		Dust/mist	
Species		rat	
Method		OECD 403	
Source		ECHA	

Skin corrosion/irritation	
No data available	

Serious eye damage/irritation	
No data available	

Respiratory or skin sensitisation	
No data available	

Germ cell mutagenicity	
No data available	

Reproduction toxicity	
No data available	

Carcinogenicity	
No data available	

NTP Report on Carcinogens (RoC)	
The product contains following substance(s) listed "known" (to be a human carcinogen) or "RAHC" (reasonably anticipated to be a human carcinogen)	

No	Substance name	CAS no.	No
1	sulphuric acid	7664-93-9	known

OSHA Standards listing cancer as a health effect (Table VII.6.2)	
According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) listed as carcinogenic.	

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans	
According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) classified by the IARC Monographs.	

STOT - single exposure	
No data available	

STOT - repeated exposure	
No data available	

Aspiration hazard	
No data available	

SECTION 12: Ecological information

12.1 Toxicity

Safety Data Sheet

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Region: USA

Toxicity to fish (acute)

No data available

Toxicity to fish (chronic)

No data available

Toxicity to Daphnia (acute)

No data available

Toxicity to Daphnia (chronic)

No data available

Toxicity to algae (acute)

No data available

Toxicity to algae (chronic)

No data available

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Other adverse effects

No data available.

12.6 Other information

Other information

Do not discharge product unmonitored into the environment.

SECTION 13: Disposal considerations

13.1 Disposal considerations

Product

Dispose in accordance with federal, state and local regulations.

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 accordance with federal, state and local regulations.

SECTION 14: Transport information

14.1 US DOT (Department of Transportation)

Transport hazard class	8
Packaging group	II
UN/NA number	UN3264
UN proper shipping name	Corrosive liquid, acidic, inorganic, n.o.s
Label code(s)	8
Danger releasing substance	sulphuric acid

14.2 Transport IMDG

Class	8
Packaging group	II
UN number	UN3264
Proper shipping name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
Danger releasing substance	sulphuric acid
EmS	F-A, S-B
Label	8

14.3 Transport ICAO-TI / IATA

Class	8
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Safety Data Sheet

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Packaging group	II
UN number	UN3264
Proper shipping name	Corrosive liquid, acidic, inorganic, n.o.s.
Danger releasing substance	sulphuric acid
Label	8

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, pls. 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 73/78 and the IBC Code

Not relevant

SECTION 15: Regulatory information

15.1 US Federal Regulations

Toxic Substances Control Act (TSCA)

According to the data available and/or specifications supplied by upstream suppliers, all components of this product are on the TSCA Inventory or are exempted from notification requirements.

CERCLA (Comprehensive Environmental Response, Compensation and Liability Act)

The product contains following substance(s) that are considered being subject to Table 302.4 "List of Hazardous Substances and Reportable Quantities"

No	Substance name	CAS no.
1	sulphuric acid	7664-93-9

Clean Air Act (CAA): Hazardous Air Pollutants (HAPS)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) that are considered being "Hazardous Air Pollutants".

Clean Water Act (CWA) Section 307 (Toxic Pollutants) and Section 311 (Hazardous Substances)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) that are considered being "Hazardous Substances".

EPCRA SARA Section 313, Toxic Chemical Release Inventory

The product contains following substance(s) that are considered being subject to "SARA Reporting".

No	Substance name	CAS no.
1	sulphuric acid	7664-93-9

Emergency Planning & Community Right-to-Know Act (EPCRA) - Sections 302 and 304

The product contains following substance(s) that are considered being subject to reporting requirements

No	Substance name	CAS no.
1	sulphuric acid	7664-93-9

Clean Air Act (CAA) - Section 602 Ozone depleting substances

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) listed as ozone depleting substance.

15.2 US State Regulations

Pennsylvania State Right to Know Hazardous Substance List

The product contains following substance(s) that are considered being "Hazardous Substances".

No	Substance name	CAS no.
1	sulphuric acid	7664-93-9

New Jersey State Right to Know Hazardous Substance List

The product contains following substance(s) that are considered being "Hazardous Substances".

No	Substance name	CAS no.
1	sulphuric acid	7664-93-9

Massachusetts State Right to Know Hazardous Substance List

Safety Data Sheet

Trade name: KRONES colclean DI 8004

Current version : 2.1.0, issued: 27.04.2020

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The product contains following substance(s) that are considered being "Hazardous Substances".

No	Substance name	CAS no.
1	sulphuric acid	7664-93-9

Right to Know - California State - Proposition 65

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) that are considered being "Hazardous Substances".

SECTION 16: Other information, including date of preparation or last revision

16.1 Other information

No data available.

16.2 Date of preparation/revision of the SDS

Current version	2.1.0	27.04.2020
Replaced version	2.0.1	30.03.2020

16.3 Department issuing 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

16.4 Conclusions

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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Prod-ID 760616

16.5 Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists
ATE - Acute Toxicity Estimate
BOD - Biochemical Oxygen Demand
CA/MA/MN/NJ/PA - California/Massachusetts/Minnesota/New Jersey/Pennsylvania
CAS - Chemical Abstracts Service
CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act
CFR - Code of Federal Regulations (US)
CLP - Classification, Labelling, and Packaging
DOT - Department of Transportation Commission
ECHA - European Chemicals Agency
EC / EL - Effective Concentration / Effective Loading
EPA - Environmental Protection Agency
IARC - International Agency for Research on Cancer
IATA - International Air Transport Association
IBC - Intermediate Bulk Container
ICAO - International Civil Aviation Organization
IDL - Ingredient Disclosure List
IDLH - Immediately Dangerous to Life and Health
IMDG - International Maritime Dangerous Goods
IUCLID - International Uniform Chemical Information Database
Kow - Octanol/water partition coefficient
LD/LC - Lethal Dose/ Lethal Concentration
MARPOL - Marine Pollution
MEL - Maximum Exposure Limits
NFPA - National Fire Protection Agency
NIOSH - National Institute for Occupational Safety and Health
NJTSR - New Jersey Trade Secret Registry

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Trade name: KRONES colclean DI 8004

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Region: USA

NOEL/NOEC – No Observed Effect Level / No Observed Effect Concentration

NTP - National Toxicology Program

OSHA - Occupational Safety and Health Administration

PEL- Permissible Exposure Limit

RCRA - Resource Conservation and Recovery Act

SARA - Superfund Amendments and Reauthorization Act

STEL - Short-term Exposure Limit

STOT – Specific Target Organ Toxicity

TDG - Transportation of Dangerous Goods

TLV - Threshold Limit Value

TSCA - Toxic Substances Control Act

TWA - Time Weighted Average

UN/NA - United Nations /North American

US - United States

VLE - Exposure Limit Value (Mexico)

VOC – Volatile Organic Compounds