

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**
**1.1 Product identifier**

**KRONES colclean AD 3004**  
**Article number: 0903204191, 0903204296, 0903204297**

IUPAC	Sulphuric acid 75 %
EU-INDEX	016-020-00-8
EINECS/ELINCS	231-639-5
CAS	7664-93-9

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

Cleaning agent

**1.2.2 Uses advised against**

None known.

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

<b>Company</b>	KIC KRONES Internationale Cooperationsgesellschaft mbH Böhmerwaldstraße 5 93073 Neutraubling / GERMANY Phone +49 9401 70-3020 Fax +49 9401 70-3696 Homepage www.kic-krones.com E-mail kic@kic-krones.com
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**Address enquiries to**

<b>Technical information</b>	kic@kic-krones.com
<b>Safety Data Sheet</b>	sdb@chemiebuero.de

**1.4 Emergency telephone number**

<b>Advisory body</b>	+49 (0)89-19240 (24h) (english)
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**SECTION 2: Hazards identification**
**2.1 Classification of the substance or mixture**

Skin Corr. 1A: H314 Causes severe skin burns and eye damage.  
 Eye Dam. 1: H318 Causes serious eye damage.  
 Met. Corr. 1: H290 May be corrosive to metals.

**2.2 Label elements**

The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP).

**Hazard pictograms**

**Signal word**

DANGER

**Contains:**

Sulphuric acid 75 % EU-INDEX 016-020-00-8

**Hazard statements**

H290 May be corrosive to metals.  
 H314 Causes severe skin burns and eye damage.

**Precautionary statements**

P260 Do not breathe vapours / spray.  
 P280 Wear protective gloves / protective clothing / eye protection / face protection.  
 P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
 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.  
 P390 Absorb spillage to prevent material damage.

### 2.3 Other hazards

<b>Physico-chemical hazards</b>	May be corrosive to metals.
<b>Environmental hazards</b>	Does not contain any PBT or vPvB substances.
<b>Other hazards</b>	Further hazards were not determined with the current level of knowledge.

### SECTION 3: Composition / Information on ingredients

#### Product-type:

The product is a substance.

Range [%]	Substance
100	Sulphuric acid 75 %
	CAS: 7664-93-9, EINECS/ELINCS: 231-639-5, EU-INDEX: 016-020-00-8
	GHS/CLP: Skin Corr. 1A: H314 - Met. Corr. 1: H290

<b>Comment on component parts</b>	Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%. All chemical substances in this material are included on or exempted from listing on the TSCA Inventory. For full text of H-statements: see SECTION 16.
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### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

<b>General information</b>	Remove contaminated soaked clothing immediately and dispose of safely.
<b>Inhalation</b>	Ensure supply of fresh air. In the event of symptoms seek medical treatment.
<b>Skin contact</b>	Immediate medical treatment necessary, as untreated burns can result in slow-healing wounds. In case of contact with skin wash off immediately with plenty of water.
<b>Eye contact</b>	Consult a doctor immediately. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Shield unaffected eye.
<b>Ingestion</b>	Consult a doctor immediately. Rinse out mouth and give plenty of water to drink. Do not induce vomiting. Do not attempt to neutralize.

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

Product is caustic.

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

Treat symptomatically.

### SECTION 5: Fire-fighting measures

#### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	All extinguishing media are suitable but method must take into account the surrounding area to minimize dispersion.
<b>Extinguishing media that must not be used</b>	Full water jet

#### 5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.  
Sulphur oxides (SO<sub>x</sub>).

### 5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.  
Use self-contained breathing apparatus.  
Wear full protective suit.

Cool containers at risk with water spray jet.  
Contain escaping vapours with water.  
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

Ensure adequate ventilation.  
Use personal protective equipment.  
Remove persons to safety.

### 6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.  
In case the product spills into drains/surface waters/groundwater, immediately inform the authorities.

### 6.3 Methods and material for containment and cleaning up

Take up with absorbent material (e.g. acid binder).  
Dispose of absorbed material in accordance with the regulations.

### 6.4 Reference to other sections

See SECTION 8+13

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Use only in well-ventilated areas.  
Avoid spilling or spraying in enclosed areas.  
When diluting, always stir product into water.  
Avoid contact with eyes and skin. Use personal protective equipment.

Do not eat, drink, smoke or take drugs at work.  
Remove soiled or soaked clothing immediately.  
Clean skin thoroughly after work, apply skin cream.  
Use barrier skin cream.

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

Provide acid-resistant floor.  
Keep only in original container.

Do not store with alkalis.  
Do not store together with acids.  
Do not store together with metals.  
Do not store with amines

Keep container tightly closed.  
Keep container in a well-ventilated place.  
Store in a dry place.  
Protect from contamination.

### 7.3 Specific end use(s)

See product use, SECTION 1.2

## SECTION 8: Exposure controls / personal protection

### 8.1 Control parameters

#### Ingredients with occupational exposure limits to be monitored (GB)

Substance
Sulphuric acid
CAS: 7664-93-9, EINECS/ELINCS: 231-639-5, EU-INDEX: 016-020-00-8
Long-term exposure: 0,05 mg/m <sup>3</sup> , mist; The mist is defined as the thoracic fraction

#### Ingredients with occupational exposure limits to be monitored (EU)

Substance / EC LIMIT VALUES
Sulphuric acid
CAS: 7664-93-9, EINECS/ELINCS: 231-639-5, EU-INDEX: 016-020-00-8
Eight hours: 0,05 mg/m <sup>3</sup> , thoracic fraction

### 8.2 Exposure controls

<b>Additional advice on system design</b>	Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
<b>Eye protection</b>	Tightly fitting goggles. (EN 166:2001) Face shield.
<b>Hand protection</b>	The details concerned are recommendations. Please contact the glove supplier for further information. In full contact: 0,7 mm, Viton, >480 min (EN 374-1/-2/-3). In splash contact: 0,7 mm, butyl rubber, > 120 min (EN 374)
<b>Skin protection</b>	Acid-resistant protective clothing.
<b>Other</b>	Avoid contact with eyes and skin. Do not breathe vapour/spray. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
<b>Respiratory protection</b>	Respiratory protection mask in the event of high concentrations. Short term: filter apparatus, filter P2. (DIN EN 143)
<b>Thermal hazards</b>	not applicable
<b>Delimitation and monitoring of the environmental exposition</b>	Protect the environment by applying appropriate control measures to prevent or limit emissions.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Form</b>	liquid
<b>Color</b>	colourless clear
<b>Odor</b>	odourless
<b>Odour threshold</b>	not applicable
<b>pH-value</b>	strongly acidic
<b>pH-value [1%]</b>	< 1
<b>Boiling point [°C]</b>	188
<b>Flash point [°C]</b>	not applicable
<b>Flammability (solid, gas) [°C]</b>	not applicable
<b>Lower explosion limit</b>	No information available.
<b>Upper explosion limit</b>	No information available.
<b>Oxidising properties</b>	no
<b>Vapour pressure/gas pressure [kPa]</b>	No information available.
<b>Density [g/ml]</b>	1,66
<b>Bulk density [kg/m<sup>3</sup>]</b>	not applicable
<b>Solubility in water</b>	completely miscible
<b>Partition coefficient [n-octanol/water]</b>	No information available.
<b>Viscosity</b>	No information available.
<b>Relative vapour density determined in air</b>	No information available.
<b>Evaporation speed</b>	No information available.
<b>Melting point [°C]</b>	-35
<b>Autoignition temperature [°C]</b>	not self-igniting
<b>Decomposition temperature [°C]</b>	No information available.

### 9.2 Other information

No information available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Corrosive to metals.

### 10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

### 10.3 Possibility of hazardous reactions

Reactions with alkalis (lyes).  
 Reactions with alkali metals.  
 Reactions with earth alkali metals.  
 Reactions with metals, with evolution of hydrogen.  
 Reactions with peroxides.  
 Reactions with acids.  
 Reactions with amines.  
 Reactions with reducing agents.  
 The product is hygroscopic.

### 10.4 Conditions to avoid

Strong heating.

## 10.5 Incompatible materials

See SECTION 10.3.

Water

Organic compounds.

## 10.6 Hazardous decomposition products

In the event of fire: See SECTION 5.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Substance
Sulphuric acid 75 %, CAS: 7664-93-9
LD50, oral, Rat: 2140 mg/kg.
LC50, inhalative, Rat: 510 mg/m <sup>3</sup> /2h.

<b>Serious eye damage/irritation</b>	Risk of serious damage to eyes. Calculation method
<b>Skin corrosion/irritation</b>	Product is caustic. Calculation method
<b>Respiratory or skin sensitisation</b>	Based on the available information, the classification criteria are not fulfilled.
<b>Specific target organ toxicity — single exposure</b>	Based on the available information, the classification criteria are not fulfilled.
<b>Specific target organ toxicity — repeated exposure</b>	Based on the available information, the classification criteria are not fulfilled.
<b>Mutagenicity</b>	Based on the available information, the classification criteria are not fulfilled.
<b>Reproduction toxicity</b>	Based on the available information, the classification criteria are not fulfilled.
<b>Carcinogenicity</b>	Based on the available information, the classification criteria are not fulfilled.
<b>Aspiration hazard</b>	Based on the available information, the classification criteria are not fulfilled.
<b>General remarks</b>	If swallowed - risk of perforation! Influence of the product with the eyes can lead to blindness. Symptoms: abdominal pain, nausea, vomiting, diarrhoea. Irritates the mucous membrane.  Toxicological data of complete product are not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

Substance
Sulphuric acid 75 %, CAS: 7664-93-9
LC50, (48h), Brachidanio rerio: > 500 mg/l (Lit.).
LC50, (96h), Lepomis macrochirus: 16-29 mg/l.
EC50, (24h), Daphnia magna: 29 mg/l.
LC0, (96h), Carassius auratus: 134 mg/l (Lit.).

### 12.2 Persistence and degradability

<b>Behaviour in environment compartments</b>	No information available.
<b>Behaviour in sewage plant</b>	The product is an acid. Neutralization is normally necessary before a waste water is discharged into sewage treatment plants.
<b>Biological degradability</b>	The methods for determining the biological degradability are not applicable to inorganic substances.

**12.3 Bioaccumulative potential**

No information available.

**12.4 Mobility in soil**

No information available.

**12.5 Results of PBT and vPvB assessment**

not applicable

**12.6 Other adverse effects**

Harmful effect due to pH shift.

Ecological data of complete product are not available.

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

**Product**

Dispose of as hazardous waste.  
Coordinate disposal with the authorities if necessary.

**Waste no. (recommended)**

060101\*

**Contaminated packaging**

Uncontaminated packaging may be taken for recycling.  
Packaging that cannot be cleaned should be disposed of as for product.

**Waste no. (recommended)**

150110\*

**SECTION 14: Transport information****14.1 UN number**


Transport by land according to  
ADR/RID 1830


Inland navigation (ADN) 1830


Marine transport in accordance with  
IMDG 1830


Air transport in accordance with IATA 1830

**14.2 UN proper shipping name**

Transport by land according to ADR/RID	Sulphuric acid
- Classification Code	C1
- Label	
- ADR LQ	1 I
- ADR 1.1.3.6 (8.6)	Transport category (tunnel restriction code) 2 (E)

Inland navigation (ADN)	Sulphuric acid
- Classification Code	C1
- Label	

Marine transport in accordance with IMDG	Sulfuric acid
- EMS	F-A, S-B
- Label	
- IMDG LQ	1 I

Air transport in accordance with IATA	Sulfuric acid
- Label	

**14.3 Transport hazard class(es)**

Transport by land according to ADR/RID	8
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Inland navigation (ADN)	8
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Marine transport in accordance with IMDG	8
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Air transport in accordance with IATA	8
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**14.4 Packing group**

Transport by land according to ADR/RID	II
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Inland navigation (ADN)	II
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Marine transport in accordance with IMDG	II
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Air transport in accordance with IATA	II
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**14.5 Environmental hazards**

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

**14.6 Special precautions for user**

Relevant information under SECTION 6 to 8.

**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code**

No information available.

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**EEC-REGULATIONS** 1991/689 (2001/118); 2010/75; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2008/47/EC); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014

**TRANSPORT-REGULATIONS** DOT-Classification, ADR (2017); IMDG-Code (2017, 38. Amdt.); IATA-DGR (2017).

**NATIONAL REGULATIONS (GB):** EH40/2005 Workplace exposure limits (Second edition, published December 2011). CHIP 3/ CHIP 4

- Observe employment restrictions for people Observe employment restrictions for young people.

- VOC (2010/75/CE) not applicable

**15.2 Chemical safety assessment**

For this product a chemical safety assessment has not been carried out.

**SECTION 16: Other information****16.1 Hazard statements (SECTION 03)**

H290 May be corrosive to metals.  
H314 Causes severe skin burns and eye damage.

**16.2 Abbreviations and acronyms:**

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route  
 RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses  
 ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure  
 ATE = acute toxicity estimate  
 CAS = Chemical Abstracts Service  
 CLP = Classification, Labelling and Packaging  
 DMEL = Derived Minimum Effect Level  
 DNEL = Derived No Effect Level  
 EC50 = Median effective concentration  
 ECB = European Chemicals Bureau  
 EEC = European Economic Community  
 EINECS = European Inventory of Existing Commercial Chemical Substances  
 ELINCS = European List of Notified Chemical Substances  
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 IATA = International Air Transport Association  
 IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
 IC50 = Inhibition concentration, 50%  
 IMDG = International Maritime Code for Dangerous Goods  
 IUCLID = International Uniform Chemical Information Database  
 LC50 = Lethal concentration, 50%  
 LD50 = Median lethal dose  
 LC0 = lethal concentration, 0%  
 LOAEL = lowest-observed-adverse-effect level  
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships  
 NOAEL = No Observed Adverse Effect Level  
 NOEC = No Observed Effect Concentration  
 PBT = Persistent, Bioaccumulative and Toxic substance  
 PNEC = Predicted No-Effect Concentration  
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals  
 STP = Sewage Treatment Plant  
 TLV@TWA = Threshold limit value – time-weighted average  
 TLV@STEL = Threshold limit value – short-time exposure limit  
 VOC = Volatile Organic Compounds  
 vPvB = very Persistent and very Bioaccumulative

**16.3 Other information****Classification procedure**

Skin Corr. 1A: H314 Causes severe skin burns and eye damage. (Calculation method)  
 Eye Dam. 1: H318 Causes serious eye damage. (Calculation method)  
 Met. Corr. 1: H290 May be corrosive to metals. (Calculation method)

**Modified position**

SECTION 4 been added: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 SECTION 4 deleted: In case of contact with eyes rinse thoroughly with water.  
 SECTION 7 been added: Avoid contact with eyes and skin. Use personal protective equipment.  
 SECTION 8 been added: Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.  
 SECTION 9 been added: No information available.  
 SECTION 9 deleted: not determined  
 SECTION 11 been added: Based on the available information, the classification criteria are not fulfilled.  
 SECTION 11 deleted: not determined  
 SECTION 11 been added: Calculation method  
 SECTION 11 been added: Risk of serious damage to eyes.  
 SECTION 12 been added: No information available.  
 SECTION 12 deleted: not determined



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