

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

KRONES colclean IC 4005
Article number: 0903949834, 0903949924, 0903949927

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

Company 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

Address enquiries to

Technical information kic@kic-krones.com

Safety Data Sheet sdb@chemiebueero.de

1.4 Emergency telephone number

Advisory body +49 (0)89-19240 (24h) (english)

SECTION 2: Hazards identification
2.1 Classification of the substance or mixture

Skin Corr. 1: 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.
 Acute Tox. 4: H302 Harmful if swallowed.

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:

Phosphoric acid

Hazard statements

H314 Causes severe skin burns and eye damage.
 H290 May be corrosive to metals.
 H302 Harmful if swallowed.

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.

Cleaner, 648/2004/CE, contains:

< 5% non-ionic surfactants

2.3 Other hazards

Environmental hazards

Does not contain any PBT or vPvB substances.

Other hazards

Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

| Range [%] | Substance |
|-----------|--|
| 30 - < 40 | Phosphoric acid |
| | CAS: 7664-38-2, EINECS/ELINCS: 231-633-2, EU-INDEX: 015-011-00-6, Reg-No.: 01-2119485924-24-XXXX |
| | GHS/CLP: Met. Corr. 1: H290 - Skin Corr. 1B: H314 - Acute Tox. 4: H302 |
| 1 - < 5 | Sulphuric acid |
| | CAS: 7664-93-9, EINECS/ELINCS: 231-639-5, EU-INDEX: 016-020-00-8, Reg-No.: 01-2119458838-20-XXXX |
| | GHS/CLP: Skin Corr. 1A: H314 - Met. Corr. 1: H290 |

Comment on component parts
Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Remove contaminated soaked clothing immediately and dispose of safely.

Inhalation
Ensure supply of fresh air.
Remove the victim into fresh air and keep him calm.
Consult a doctor immediately.
Skin contact
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.
Eye contact
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.
Ingestion
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

Suitable extinguishing media

All extinguishing media are suitable but method must take into account the surrounding area to minimize dispersion.

Extinguishing media that must not be used

Full water jet

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.
Phosphorus oxides (PO_x).
Sulphur oxides (SO_x).

5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.

Use self-contained breathing apparatus.

Wear full protective suit.

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 oxidizing agents.

Do not store together with metals.

Keep container tightly closed.

Keep container in a well-ventilated place.

Keep in a cool place. Store in a dry place.

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 |
| Phosphoric acid |
| CAS: 7664-38-2, EINECS/ELINCS: 231-633-2, EU-INDEX: 015-011-00-6, Reg-No.: 01-2119485924-24-XXXX |
| Long-term exposure: 1 mg/m ³ |
| Short-term exposure (15-minute): 2 mg/m ³ |
| Sulphuric acid |
| CAS: 7664-93-9, EINECS/ELINCS: 231-639-5, EU-INDEX: 016-020-00-8, Reg-No.: 01-2119458838-20-XXXX |
| Long-term exposure: 0,05 mg/m ³ , mist; The mist is defined as the thoracic fraction |

Ingredients with occupational exposure limits to be monitored (EU)

| |
|--|
| Substance / EC LIMIT VALUES |
| Phosphoric acid |
| CAS: 7664-38-2, EINECS/ELINCS: 231-633-2, EU-INDEX: 015-011-00-6, Reg-No.: 01-2119485924-24-XXXX |
| Eight hours: 1 mg/m ³ |
| Short-term (15-minute): 2 mg/m ³ |
| Sulphuric acid |
| CAS: 7664-93-9, EINECS/ELINCS: 231-639-5, EU-INDEX: 016-020-00-8, Reg-No.: 01-2119458838-20-XXXX |
| Eight hours: 0,05 mg/m ³ , thoracic fraction |

DNEL

| |
|--|
| Substance |
| Sulphuric acid, CAS: 7664-93-9 |
| Industrial, inhalative, Long-term - local effects: 0,05 mg/m ³ . |
| Industrial, inhalative, Acute - local effects: 0,1 mg/m ³ . |
| Phosphoric acid, CAS: 7664-38-2 |
| Industrial, inhalative, Long-term - local effects: 2,92 mg/m ³ . |
| Industrial, inhalative, Long-term - systemic effects: 10,7 mg/m ³ . |
| general population, inhalative, Long-term - systemic effects: 4,57 mg/m ³ . |
| general population, inhalative, Long-term - local effects: 0,73 mg/m ³ . |
| general population, oral, Long-term - systemic effects: 0,1 mg/kg. |

PNEC

| |
|--|
| Substance |
| Sulphuric acid, CAS: 7664-93-9 |
| sediment (seawater), 0,002 mg/kg dw. |
| sediment (freshwater), 0,002 mg/kg dw. |
| sewage treatment plants (STP), 8,8 mg/l. |
| seawater, 0,00025 mg/l. |
| freshwater, 0,0025 mg/l. |

8.2 Exposure controls

| | |
|--|--|
| Additional advice on system design | 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. |
| Eye protection | Tightly fitting goggles. (EN 166:2001) Face shield. |
| Hand protection | The details concerned are recommendations. Please contact the glove supplier for further information. ≥ 0,5 mm, Butyl rubber, >480 min (EN 374-1/-2/-3). ≥ 0,4 mm, Viton, >480 min (EN 374-1/-2/-3). ≥ 0,35 mm, Nitrile rubber, >480 min (EN 374-1/-2/-3). |
| Skin protection | Acid-resistant protective clothing. |
| Other | 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. |
| Respiratory protection | Respiratory protection mask in the event of high concentrations. Short term: filter apparatus, combination filter E-P2 (DIN EN 14387) |
| Thermal hazards | not applicable |
| Delimitation and monitoring of the environmental exposition | 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

| | |
|--|---------------------------|
| Form | liquid |
| Color | colourless |
| Odor | characteristic |
| Odour threshold | No information available. |
| pH-value | < 1 |
| pH-value [1%] | No information available. |
| Boiling point [°C] | > 100 |
| Flash point [°C] | not applicable |
| Flammability (solid, gas) [°C] | not applicable |
| Lower explosion limit | No information available. |
| Upper explosion limit | No information available. |
| Oxidising properties | no |
| Vapour pressure/gas pressure [kPa] | No information available. |
| Density [g/ml] | 1,28 |
| Bulk density [kg/m³] | not applicable |
| Solubility in water | completely miscible |
| Partition coefficient [n-octanol/water] | No information available. |
| Viscosity | No information available. |
| Relative vapour density determined in air | No information available. |
| Evaporation speed | No information available. |
| Melting point [°C] | No information available. |
| Autoignition temperature [°C] | not self-igniting |
| Decomposition temperature [°C] | No information available. |

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with acids.

Reactions with alkalies (lyes).

Reactions with metals, with evolution of hydrogen.

Reactions with oxidizing agents.

Exothermic reaction with:

Water

10.4 Conditions to avoid

To avoid thermal decomposition, do not overheat.

10.5 Incompatible materials

See SECTION 10.3.

10.6 Hazardous decomposition products

No dangerous reactions known if used as directed.

In the case of heating following (decomposition) products may occur:

Phosphorus oxides (PO_x).

Sulphurous oxides (SO_x).

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

| |
|---|
| Product |
| ATE-mix, oral, > 1000 - 2000 mg/kg. |
| Substance |
| Sulphuric acid, CAS: 7664-93-9 |
| LD50, inhalative, Rat: 0,375 mg/l (OECD TG 403 aerosols). |
| LD50, oral, Rat: 2140 mg/kg (OECD TG 401). |
| Phosphoric acid, CAS: 7664-38-2 |
| LD50, dermal, Rabbit: 2740 mg/kg. |
| LD50, oral, Rat: > 500 - 2000 mg/kg (OECD 423). |
| NOAEL, oral, Rat: 250 mg/kg. |
| ATE, oral, 667 mg/kg (75%). |

| | |
|---|--|
| Serious eye damage/irritation | Risk of serious damage to eyes. Calculation method |
| Skin corrosion/irritation | Product is caustic. Calculation method |
| Respiratory or skin sensitisation | Based on the available information, the classification criteria are not fulfilled. |
| Specific target organ toxicity — single exposure | Based on the available information, the classification criteria are not fulfilled. |
| Specific target organ toxicity — repeated exposure | Based on the available information, the classification criteria are not fulfilled. |
| Mutagenicity | Based on the available information, the classification criteria are not fulfilled. |
| Reproduction toxicity | Based on the available information, the classification criteria are not fulfilled. |
| Carcinogenicity | Based on the available information, the classification criteria are not fulfilled. |
| Aspiration hazard | Based on the available information, the classification criteria are not fulfilled. |
| General remarks | If swallowed - risk of perforation! Toxicological data of complete product are not available. The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials. |

SECTION 12: Ecological information

12.1 Toxicity

| |
|--|
| Substance |
| Sulphuric acid, CAS: 7664-93-9 |
| LC50, (96h), Lepomis macrochirus: 16 - 28 mg/l. |
| EC50, (48h), Daphnia magna: > 100 mg/l (OECD 202). |
| IC50, (72h), Desmodesmus subspicatus: > 100 mg/l (OECD 201). |
| Phosphoric acid, CAS: 7664-38-2 |
| LC50, (96h), Lepomis macrochirus: 98 - 106 mg/l. |
| EC50, (72h), Algae: > 100 mg/l. |
| EC50, (48h), Daphnia magna: > 100 mg/l. |

12.2 Persistence and degradability

Behaviour in environment compartments

No information available.

Behaviour in sewage plant

The product is an acid. Neutralization is normally necessary before a waste water is discharged into sewage treatment plants.

Biological degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

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)

060104*
200129*

Contaminated packaging

Untaminated 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 1805

Inland navigation (ADN) 1805

Marine transport in accordance with IMDG 1805

Air transport in accordance with IATA 1805

14.2 UN proper shipping name

Transport by land according to ADR/RID Phosphoric acid, solution

- Classification Code C1

- Label 

- ADR LQ 5 l

- ADR 1.1.3.6 (8.6) Transport category (tunnel restriction code) 3 (E)

Inland navigation (ADN) Phosphoric acid, solution

- Classification Code C1

- Label 

Marine transport in accordance with IMDG Phosphoric acid solution

- EMS F-A, S-B

- Label 

- IMDG LQ 5 l

Air transport in accordance with IATA Phosphoric acid, solution

- Label 

14.3 Transport hazard class(es)

Transport by land according to ADR/RID 8

Inland navigation (ADN) 8

Marine transport in accordance with IMDG 8

Air transport in accordance with IATA 8

14.4 Packing group

Transport by land according to ADR/RID III

Inland navigation (ADN) III

Marine transport in accordance with IMDG III

Air transport in accordance with IATA III

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.
Observe employment restrictions for mothers-to-be and nursing mothers.

- 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)**

H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H290 May be corrosive to metals.

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. 1: 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)
 Acute Tox. 4: H302 Harmful if swallowed. (Calculation method)

Modified position

SECTION 2 been added: H302 Harmful if swallowed.
 SECTION 2 been added: exclamation mark
 SECTION 2 been added: Acute Tox. 4
 SECTION 2 been added: Skin Corr. 1
 SECTION 2 deleted: Skin Corr. 1B
 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 10 been added: To avoid thermal decomposition, do not overheat.
 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
 SECTION 16 deleted: Calculation method



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