

SECTION 1: Identification of the substance/mixture and of the company/undertaking
1.1 Product identifier
KRONES colclean FC 5001
Article number: 0903276518, 0903276620, 0903276624, 0903431651
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
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 93073 Neutraubling / GERMANY
 Phone +49 9401 70-3020
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Technical information

kic@kic-krones.com

Safety Data Sheet

sdb@chemiebuerro.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.
 Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects.

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:

Sulphamic acid

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl, N-(C8-18 und C18 unsat. acryl)
 derivs, inner salt

Hazard statements

H314 Causes severe skin burns and eye damage.
 H412 Harmful to aquatic life with long lasting effects.

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.
 P501 Dispose of contents/container in accordance with local/national regulation.

Cleaner, 648/2004/CE, contains:

< 5% non-ionic surfactants
 < 5% amphoteric 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
10 - < 15	Sulphamic acid CAS: 5329-14-6, EINECS/ELINCS: 226-218-8, EU-INDEX: 016-026-00-0, Reg-No.: 01-2119488633-28-XXXX GHS/CLP: Eye Irrit. 2: H319 - Skin Irrit. 2: H315 - Aquatic Chronic 3: H412
1 - < 4	1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl, N-(C8-18 und C18 unsat. acryl) derivs, inner salt CAS: 147170-44-3, EINECS/ELINCS: 931-333-8, Reg-No.: 01-2119489410-39-XXXX GHS/CLP: Eye Dam. 1: H318 - Aquatic Chronic 3: H412
1 - < 2,5	Amines, C12-14-alkyldimethyl, N-oxides CAS: 308062-28-4, EINECS/ELINCS: 931-292-6, Reg-No.: 01-2119490061-47-XXXX GHS/CLP: Acute Tox. 4: H302 - Skin Irrit. 2: H315 - Eye Dam. 1: H318 - Aquatic Acute 1: H400 - Aquatic Chronic 2: H411, M = 1

Comment on component parts	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

General information	Remove contaminated soaked clothing immediately and dispose of safely.
Inhalation	Ensure supply of fresh air. In the event of symptoms seek medical treatment.
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	Product itself is non-combustible. Fire extinguishing method of surrounding areas must be considered.
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.
Carbon monoxide (CO)
Nitrogen oxides (NO_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 metals.
Do not store together with oxidizing agents.
Keep container tightly closed.
Keep container in a well-ventilated place.
Protect from heat/overheating.

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)

not applicable

DNEL

Substance
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl, N-(C8-18 und C18 unsat. acryl) derivs, inner salt, CAS: 147170-44-3
Industrial, dermal, Long-term - systemic effects: 12,5 mg/k bw/d.
Industrial, inhalative, Long-term - systemic effects: 44 mg/m ³ .
general population, dermal, Long-term - systemic effects: 7,5 mg/k bw/d.
general population, oral, Long-term - systemic effects: 7,5 mg/k bw/d.
Sulphamic acid, CAS: 5329-14-6
Industrial, inhalative, Long-term - systemic effects: 70,5 mg/m ³ .
Industrial, dermal, Long-term - systemic effects: 10 mg/kg bw/day.
general population, oral, Long-term - systemic effects: 5 mg/kg bw/day.
general population, dermal, Long-term - systemic effects: 5 mg/kg bw/day.
general population, inhalative, Long-term - systemic effects: 17,4 mg/m ³ .
Amines, C12-14-alkyldimethyl, N-oxides, CAS: 308062-28-4
Industrial, dermal, Long-term - systemic effects: 11 mg/kg bw/day.
Industrial, dermal, Long-term - local effects: 0,27 % in mixture (weight basis).
Industrial, inhalative, Long-term - systemic effects: 15,5 mg/m ³ .
general population, inhalative, Long-term - systemic effects: 3,825 mg/m ³ .
general population, dermal, Long-term - systemic effects: 5,5 mg/kg bw/day.
general population, oral, Long-term - systemic effects: 0,44 mg/kg bw/day.
general population, dermal, Long-term - local effects: 0,27 % in mixture (weight basis).

PNEC

Substance
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl, N-(C8-18 und C18 unsat. acryl) derivs, inner salt, CAS: 147170-44-3
seawater, 0,0014 mg/l.
sewage treatment plants (STP), 3000 mg/l.
sediment (freshwater), 1 mg/kg dw.
sediment (seaater), 0,1 mg/kg dw.
soil, 0,8 mg/kg dw.
freshwater, 0,0135 mg/l.
Sulphamic acid, CAS: 5329-14-6
sediment (seaater), 0,84 mg/kg.
freshwater, 1,8mg/L.
sediment (freshwater), 8,36 mg/kg.
soil, 5 mg/kg.
sewage treatment plants (STP), 20 mg/L.
seawater, 0,18 mg/L.
Amines, C12-14-alkyldimethyl, N-oxides, CAS: 308062-28-4
sediment (freshwater), 5,24 mg/kg.
sediment (seaater), 0,524 mg/kg.
soil, 1,02 mg/kg.

freshwater, 0,0335 mg/l.
seawater, 0,00335 mg/l.
sewage treatment plants (STP), 24 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. In full contact: 0,5 mm natural latex, >480 min (EN 374-1/-2/-3). 0,5 mm Polychloroprene, >480 min (EN 374-1/-2/-3). In splash contact: 0,5 mm Polychloroprene, >120 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 A-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	yellowish clear
Odor	characteristic
Odour threshold	No information available.
pH-value	strongly acidic
pH-value [1%]	ca. 2
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]	ca. 1,06
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]	< 0
Autoignition temperature [°C]	not self-igniting
Decomposition temperature [°C]	No information available.

9.2 Other information

No information available.

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 metals.
Reactions with alkalis (lyes).
Reactions with oxidizing agents.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

See SECTION 10.3.

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

Product
ATE-mix, oral, > 2000 mg/kg.
Substance
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl, N-(C8-18 und C18 unsat. acryl) derivs, inner salt, CAS: 147170-44-3
dermal, SCL: 4 - 10 % Eye Irrit. 2 - H319.
LD50, oral, Rat: 4900 mg/kg.
LD50, dermal, Rat: > 2000 mg/kg (30%).
LD50, oral, Rat: > 6000 mg/kg (30%).
Sulphamic acid, CAS: 5329-14-6
LD50, dermal, Rat: > 2000 mg/kg (OECD 402).
LD50, oral, Rat: 2065 mg/kg.
Amines, C12-14-alkyldimethyl, N-oxides, CAS: 308062-28-4
LD50, dermal, Rat: > 5000 mg/kg (OECD - 402).
LD50, oral, Rat: > 300 - 2000 mg/kg (OECD - 401).

Serious eye damage/irritation	Risk of serious damage to eyes. The classification is due to the extreme pH.
Skin corrosion/irritation	Product is caustic. The classification is due to the extreme pH.
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	

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
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl, N-(C8-18 und C18 unsat. acryl) derivs, inner salt, CAS: 147170-44-3
LC50, (96h), fish: 1-10 mg/l.
LC50, (96h), fish: 3 mg/l (30%).
EC50, (48h), Algae: 1-10 mg/l.
EC50, (48h), Daphnia magna: 1-10 mg/l.
EC50, (48h), Daphnia magna: 5 mg/l (30%).
EC50, (72h), Desmodesmus subspicatus: 15,6 mg/l (30%).
NOEC, Daphnia magna: 2,99 mg/l.
NOEC, Algae: 0,38 mg/l.
EC0, (16h), Pseudomonas putida: > 8000 mg/l (30%).
Sulphamic acid, CAS: 5329-14-6
LC50, (24h), Daphnia magna: 71,6 mg/l (OECD 202).
LC50, (96h), Pimephales promelas: 70,3 mg/l (IUCLID).
ErC50, (72h), Algae: 48 mg/l (OECD 201).
ErC50, (3h), Activated sludge: > 200 mg/l (OECD 209).
Amines, C12-14-alkyldimethyl, N-oxides, CAS: 308062-28-4
LC50, (96h), fish: > 1 - 10 mg/l.
EC50, (72h), Algae: > 0,1 - 1 mg/l (OECD - 201).
EC50, (48h), Daphnia magna: > 1 - 10 mg/l (OECD - 202).

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 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

logKow: 0,1 (CAS 5329-14-6)

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

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.

Do not discharge product unmonitored into the environment or into the drainage.

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) 060106*
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 3264

Inland navigation (ADN) 3264

Marine transport in accordance with IMDG 3264

Air transport in accordance with IATA 3264

14.2 UN proper shipping name

Transport by land according to ADR/RID Corrosive liquid, acidic, inorganic, n.o.s. (Sulfamic acid, Surfactants)

- 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) Corrosive liquid, acidic, inorganic, n.o.s. (Sulfamic acid, Surfactants)

- Classification Code C1

- Label



Marine transport in accordance with IMDG Corrosive liquid, acidic, inorganic, n.o.s. (Sulfamic acid, Surfactants)

- EMS F-A, S-B

- Label



- IMDG LQ 1 I

Air transport in accordance with IATA Corrosive liquid, acidic, inorganic, n.o.s. (Sulfamic acid, Surfactants)

- 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 II

Inland navigation (ADN) II

Marine transport in accordance with IMDG II

Air transport in accordance with IATA II

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 the following substances of this preparation a chemical safety assessment has been carried out:
sulphamidic acid

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

H411 Toxic to aquatic life with long lasting effects.
H400 Very toxic to aquatic life.
H302 Harmful if swallowed.
H318 Causes serious eye damage.
H412 Harmful to aquatic life with long lasting effects.
H315 Causes skin irritation.
H319 Causes serious eye irritation.

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. (Expert judgement)
 Eye Dam. 1: H318 Causes serious eye damage. (Expert judgement)
 Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects. (Expert judgement)

Modified position

SECTION 2 been added: H412 Harmful to aquatic life with long lasting effects.
 SECTION 2 been added: Aquatic Chronic 3
 SECTION 2 been added: Skin Corr. 1
 SECTION 2 deleted: Skin Corr. 1A
 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 deleted: not determined
 SECTION 9 been added: No information available.
 SECTION 11 been added: Based on the available information, the classification criteria are not fulfilled.
 SECTION 11 deleted: not determined
 SECTION 11 been added: Risk of serious damage to eyes.
 SECTION 11 been added: Product is caustic.
 SECTION 11 been added: The classification is due to the extreme pH.
 SECTION 12 deleted: not determined
 SECTION 12 been added: No information available.
 SECTION 16 been added: Calculation method



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