

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

KRONES colclean DI 1011
Article number 0904137421, 0904250150, 0904250006

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

Disinfectant

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@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**

Org. Perox. F: H242 Heating may cause a fire.
Skin Corr. 1A: H314 Causes severe skin burns and eye damage.
Eye Dam. 1: H318 Causes serious eye damage.
Acute Tox. 4: H302 Harmful if swallowed.
STOT SE 3: H335 May cause respiratory irritation.
Aquatic Chronic 1: H410 Very toxic to aquatic life with long lasting effects.
Met. Corr. 1: H290 May be corrosive to metals.

2.2 Label elements

Hazard pictograms



The product is classified and required to be labelled in accordance with EC-Directives

Signal word

DANGER

Contains:

Hydrogen peroxide
Peracetic acid

Hazard statements

H242 Heating may cause a fire.
H314 Causes severe skin burns and eye damage.
H302 Harmful if swallowed.
H335 May cause respiratory irritation.
H410 Very toxic to aquatic life with long lasting effects.
H290 May be corrosive to metals.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 Avoid breathing vapours / spray.
P280 Wear protective gloves / protective clothing / eye protection / face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water / 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.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P405 Store locked up.
P501 Dispose of contents/container to in accordance with local/regional/national/international regulation.

Special labelling

EUH071 Corrosive to the respiratory tract.

Biocide (528/2012/CE) contains:

14,9 g/100g Peracetic acid
23 g/100g Hydrogen peroxide
Registration: -

2.3 Other hazards

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 - 25	Acetic acid CAS: 64-19-7, EINECS/ELINCS: 200-580-7, EU-INDEX: 607-002-00-6, Reg-No.: 01-2119475328-30-XXXX GHS/CLP: Flam. Liq. 3: H226 - Skin Corr. 1A: H314 - Eye Dam. 1: H318
10 - 25	Hydrogen peroxide CAS: 7722-84-1, EINECS/ELINCS: 231-765-0, EU-INDEX: 008-003-00-9, Reg-No.: 01-2119485845-22-XXXX GHS/CLP: Ox. Liq. 1: H271 - Skin Corr. 1A: H314 - Acute Tox. 4: H302 H332 - STOT SE 3: H335 - Aquatic Chronic 3: H412
< 15	Peracetic acid CAS: 79-21-0, EINECS/ELINCS: 201-186-8, EU-INDEX: 607-094-00-8, Reg-No.: 01-2119531330-56-XXXX GHS/CLP: Flam. Liq. 3: H226 - Org. Perox. D: H242 - Acute Tox. 3: H301 - Acute Tox. 4: H312 H332 - Skin Corr. 1A: H314 - STOT SE 3: H335 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410 - Eye Dam. 1: H318, M = 10

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.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information	Remove contaminated soaked clothing immediately and dispose of safely. Symptoms of poisoning may not occur for many hours, therefore keep under medical supervision for at least 48 hours.
Inhalation	Ensure supply of fresh air. Remove the victim into fresh air and keep him calm. 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	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult a doctor immediately.
Ingestion	Consult a doctor immediately. Do not induce vomiting. Rinse out mouth and give plenty of water to drink.

4.2 Most important symptoms and effects, both acute and delayed

Product is caustic.
Irritant effects
Cough

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.
Forward this sheet to the doctor.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	Water mist. Water spray jet.
Extinguishing media that must not be used	Dry powder. Foam.

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.
Has a fire-promoting effect due to release of oxygen.
Bursting Containers can be forcibly projected from a fire.

5.3 Advice for firefighters

Use self-contained breathing apparatus.
Wear full protective suit.
Cool containers at risk 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

Keep away from all sources of ignition.
Use personal protective clothing.
Keep people away and stay on the upwind side.
Ensure adequate ventilation.

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

Rinse away small amounts with water.
Pick up with absorbent material (e.g. sand, universal absorbent, diatomaceous earth).
Dispose of absorbed material in accordance within 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.
Provide suitable vacuuming at the processing area.
Keep away from open flames, hot surfaces and sources of ignition.
May cause fire; oxidiser.
Contaminated work clothing should not be allowed out of the workplace.
Do not eat, drink or smoke when using this product.
Use barrier skin cream.
Take off contaminated clothing and wash before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.
Provide acid-resistant floor.
Do not use zinc/aluminium containers.
Do not store with combustible materials.
Do not store together with reducing agents.
Do not store with alkalies.
Keep in a cool place, heat causes increase in pressure and risk of bursting.
Keep container in a well-ventilated place.
Container should not be gas-tight.
Protect from heat/overheating and from sun.
Keep away from frost.
Recommended storage temperature: > 0°C - 20°C
Do not keep at temperatures above 30°C.

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
Hydrogen peroxide
CAS: 7722-84-1, EINECS/ELINCS: 231-765-0, EU-INDEX: 008-003-00-9, Reg-No.: 01-2119485845-22-XXXX
Long-term exposure: 1 ppm, 1,4 mg/m ³
Short-term exposure (15-minute): 2 ppm, 2,8 mg/m ³
Acetic acid
CAS: 64-19-7, EINECS/ELINCS: 200-580-7, EU-INDEX: 607-002-00-6, Reg-No.: 01-2119475328-30-XXXX
Long-term exposure: 10 ppm, 25 mg/m ³
Short-term exposure (15-minute): 15 ppm, 37 mg/m ³

Ingredients with occupational exposure limits to be monitored (EU)

Substance / EC LIMIT VALUES
Acetic acid
CAS: 64-19-7, EINECS/ELINCS: 200-580-7, EU-INDEX: 607-002-00-6, Reg-No.: 01-2119475328-30-XXXX
Eight hours: 10 ppm, 25 mg/m ³

DNEL

Substance
Acetic acid, CAS: 64-19-7
Industrial, inhalative, Acute - local effects: 25 mg/m ³ .
Industrial, inhalative, Long-term - local effects: 25 mg/m ³ .
general population, inhalative, Acute - local effects: 25 mg/m ³ .
general population, inhalative, Long-term - local effects: 25 mg/m ³ .
Hydrogen peroxide, CAS: 7722-84-1
Industrial, inhalative, Long-term - systemic effects: 1,4 mg/m ³ .
Industrial, inhalative, Long-term - local effects: 1,4 mg/m ³ .
Industrial, inhalative, Acute - local effects: 3 mg/m ³ .
general population, inhalative, Long-term - local effects: 0,21 mg/m ³ .
general population, inhalative, Acute - local effects: 1,93 mg/m ³ .
Peracetic acid, CAS: 79-21-0
Industrial, inhalative, Long-term - local effects: 0,6 mg/m ³ .
Industrial, inhalative, Acute - local effects: 0,6 mg/m ³ .
Industrial, inhalative, Long-term - systemic effects: 0,6 mg/m ³ .
general population, inhalative, Long-term - local effects: 0,6 mg/m ³ .
general population, inhalative, Acute - local effects: 0,6 mg/m ³ .
general population, inhalative, Long-term - systemic effects: 0,6 mg/m ³ .

PNEC

Substance
Acetic acid, CAS: 64-19-7
sediment (seawater), 1,136 mg/kg.
soil, 0,478 mg/kg.
sediment (freshwater), 11,36 mg/kg.
seawater, 0,3058 mg/l.
freshwater, 3,058 mg/l.
sewage treatment plants (STP), 85 mg/l.

Hydrogen peroxide, CAS: 7722-84-1
soil, 0,0023 mg/kg.
sediment (freshwater), 0,47 mg/kg.
sediment (seaater), 0,47 mg/kg.
freshwater, 0,0126 mg/l.
seawater, 0,0126 mg/l.
sewage treatment plants (STP), 4,66 mg/l.
soil, 0,0019 mg/kg.
Peracetic acid, CAS: 79-21-0
freshwater, 0,000224 mg/l.
sewage treatment plants (STP), 0,051 mg/l.
soil, 320 µg/kg.
sediment (freshwater), 0,00018 mg/kg.

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	Face shield. Tightly fitting goggles. (EN 166:2001)
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. In full contact: 0,5mm: Butyl rubber, >480 min (EN 374-1/-2/-3). 0,5mm: Viton, >480 min (EN 374-1/-2/-3).
Skin protection	Acid-resistant protective clothing.
Other	Do not inhale gases/vapours/aerosols. Avoid contact with eyes and skin. 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	Breathing apparatus in the event of high concentrations. Short term: filter apparatus, combination filter B-P2. (DIN EN 14387)
Thermal hazards	No information available.
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	pungent
Odour threshold	No information available.
pH-value	strongly acidic
pH-value [1%]	~2,9 (20°C)
Boiling point [°C]	105
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	yes
Vapour pressure/gas pressure [kPa]	<= 2,3 (20°C)
Density [g/ml]	~1,15
Bulk density [kg/m ³]	not applicable
Solubility in water	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]	<-18
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

See SECTION 10.3.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

As oxidizing agent, attacks organic substances such as wood, paper, fats.
 Self accelerating exothermic reaction with evolution of oxygen.
 Reactions with reducing agents.
 Reactions with metals.
 Reactions with alkalis (lyes).
 Reactions with combustible substances.
 Corrosive to metals.

10.4 Conditions to avoid

To avoid thermal decomposition, do not overheat.
 Warming
 Sunlight

10.5 Incompatible materials

See SECTION 10.3.

10.6 Hazardous decomposition products

Oxygen.

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity**

Product
ATE-mix, oral, > 300 - < 2000 mg/kg.
Substance
Acetic acid, CAS: 64-19-7
LD50, dermal, Rabbit: 1060 mg/kg (Lit.).
LD50, oral, Rat: 1780 mg/kg (Lit.).
LC50, inhalative, Rat: 11,4 mg/l 4h.
Hydrogen peroxide, CAS: 7722-84-1
LD50, dermal, Rabbit: > 2000 mg/kg (H2O2 35 %).
LD50, oral, Rat: 1193 - 1270 mg/kg (H2O2 35 %).
LC50, inhalative, Rat: > 0,17 mg/l 4h (H2O2 50%).
Peracetic acid, CAS: 79-21-0
LD50, oral, Rat: 100 mg/kg.
LD50, dermal, Rabbit: 1100 mg/kg.
LC50, inhalative, Rat: 76 -> 241 mg/l/4h.

Serious eye damage/irritation	Toxicological data of complete product are not available. Product is caustic. Calculation method
Skin corrosion/irritation	Toxicological data of complete product are not available. Product is caustic. Calculation method
Respiratory or skin sensitisation	Toxicological data of complete product are not available. Based on the available information, the classification criteria are not fulfilled.
Specific target organ toxicity — single exposure	Toxicological data of complete product are not available. May cause respiratory irritation. Calculation method
Specific target organ toxicity — repeated exposure	Toxicological data of complete product are not available. Based on the available information, the classification criteria are not fulfilled.
Mutagenicity	Toxicological data of complete product are not available. Based on the available information, the classification criteria are not fulfilled.
Reproduction toxicity	Toxicological data of complete product are not available. Based on the available information, the classification criteria are not fulfilled.
Carcinogenicity	Toxicological data of complete product are not available. 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!

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
Acetic acid, CAS: 64-19-7
LC50, (96h), <i>Lepomis macrochirus</i> : 75 mg/l.
EC50, (24h), <i>Daphnia magna</i> : 47 mg/l.
IC5, (16h), <i>Scenedesmus quadricauda</i> (alga): 4000 mg/l.
Hydrogen peroxide, CAS: 7722-84-1
LC50, (96h), <i>Pimephales promelas</i> : 16,4 mg/l (100 %).
EC50, (72h), <i>Skeletonema costatum</i> : 1,38-2,6 mg/l.
EC50, Bacteria: 466 mg/l/30min (100 %; OECD TG 209).
EC50, Bacteria: > 1000 mg/l/3 h (100 %; OECD TG 209).
EC50, (48h), <i>Daphnia magna</i> : 2,4 mg/l (100 %).
EC50, (72h), <i>Chlorella vulgaris</i> : 4,3 mg/l.
NOEC, (21d), <i>Daphnia magna</i> : 0,63 mg/l (100 %).
NOEC, (96h), <i>Pimephales promelas</i> : 5 mg/l.
NOEC, (72h), <i>Skeletonema costatum</i> : 0,63 mg/l (100 %).
Peracetic acid, CAS: 79-21-0
LC50, (96h), <i>Lepomis macrochirus</i> : 1,1 - 3,3 mg/l.
LC50, (96h), <i>Oncorhynchus mykiss</i> : 0,9 - 2,0 mg/l (Lit.).
EC50, (48h), <i>Daphnia magna</i> : 0,5 - 1,0 mg/l (Lit.).
EC50, (48h), <i>Pseudokirchneriella subcapitata</i> : 0,18 - 1,0 mg/l.
EC50, (3h), Activated sludge: 5,1 mg/l (OECD TG 209).
NOEC, (21d), <i>Daphnia magna</i> : 0,05 mg/l (OECD 211).
NOEC, <i>Danio rerio</i> : 0,00094 mg/l/33d.

12.2 Persistence and degradability

Behaviour in environment compartments	No information available.
Behaviour in sewage plant	Neutralization is normally necessary before a waste water is discharged into sewage treatment plants.
Biological degradability	The product is biodegradable. Peracetic acid decomposes into acetic acid, water and oxygen.

12.3 Bioaccumulative potential

Accumulation in organisms is not expected.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

not applicable

12.6 Other adverse effects

Ecological data of complete product are not available.
Do not discharge product unmonitored into the environment.

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.
For recycling, consult manufacturer.

Waste no. (recommended) 070601*
160903*
160904*

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 3109

Inland navigation (ADN) 3109

Marine transport in accordance with IMDG 3109

Air transport in accordance with IATA 3109

14.2 UN proper shipping name

Transport by land according to ADR/RID Organic peroxide type F, liquid, Peroxyacetic acid

- Classification Code P1

- Label



- ADR LQ 0,125 l

- ADR 1.1.3.6 (8.6) Transport category (tunnel restriction code) 2 (D)

Inland navigation (ADN) Organic peroxide type F, liquid, Peroxyacetic acid

- Classification Code P1

- Label



Marine transport in accordance with IMDG Organic peroxide Type F, liquid, Peroxyacetic acid

- EMS

F-J, S-R

- Label



- IMDG LQ 0,125 l

Air transport in accordance with IATA Organic peroxide Type F, liquid, Peroxyacetic acid

- Label

**14.3 Transport hazard class(es)**

Transport by land according to ADR/RID 5.2

Inland navigation (ADN) 5.2

Marine transport in accordance with IMDG 5.2

Air transport in accordance with IATA 5.2

14.4 Packing group

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.5 Environmental hazards

Transport by land according to ADR/RID yes

Inland navigation (ADN) yes

Marine transport in accordance with IMDG MARINE POLLUTANT

Air transport in accordance with IATA yes

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); 1999/13; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC; (EU) 2015/830

TRANSPORT-REGULATIONS DOT-Classification, ADR (2015); IMDG-Code (2015, 37. Amdt.); IATA-DGR (2016).

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

- VOC (1999/13/CE) not applicable

15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

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

H410 Very toxic to aquatic life with long lasting effects.
 H400 Very toxic to aquatic life.
 H312+H332 Harmful in contact with skin or if inhaled.
 H301 Toxic if swallowed.
 H242 Heating may cause a fire.
 H412 Harmful to aquatic life with long lasting effects.
 H335 May cause respiratory irritation.
 H302+H332 Harmful if swallowed or if inhaled.
 H271 May cause fire or explosion; strong oxidiser.
 H318 Causes serious eye damage.
 H314 Causes severe skin burns and eye damage.
 H226 Flammable liquid and vapour.

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
 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
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships
 PBT = Persistent, Bioaccumulative and Toxic substance
 PNEC = Predicted No-Effect Concentration
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
 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**

Org. Perox. F: H242 Heating may cause a fire. (Calculation method)
 Skin Corr. 1A: H314 Causes severe skin burns and eye damage. (Calculation method)
 Eye Dam. 1: H318 Causes serious eye damage. (Calculation method)
 Acute Tox. 4: H302 Harmful if swallowed. (Calculation method)
 STOT SE 3: H335 May cause respiratory irritation. (Calculation method)
 Aquatic Chronic 1: H410 Very toxic to aquatic life with long lasting effects. (Calculation method)
 Met. Corr. 1: H290 May be corrosive to metals. (Calculation method)

Modified position

none



Copyright: Chemiebüro®

