

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

1.1 Product identifier

KRONES colclean FC 4001
Article number 0903842285, 0903710723

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@chemiebuero.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

Ox. Liq. 2: H272 May intensify fire; oxidiser.
Skin Corr. 1B: H314 Causes severe skin burns and eye damage.
Eye Dam. 1: H318 Causes serious eye damage.
STOT SE 3: H335 May cause respiratory irritation.
Met. Corr. 1: H290 May be corrosive to metals.
Acute Tox. 4: H302 Harmful if swallowed.
Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects.
Org. Perox. G:

2.2 Label elements

Hazard pictograms



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

Signal word

DANGER

Contains:

Benzenesulphonic acid, 4-C10-13-sec-alkyl derivative

Hydrogen peroxide

Peracetic acid

Isotridecanol, ethoxylated

Hazard statements

H272 May intensify fire; oxidiser.

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P221 Take any precaution to avoid mixing with combustibles.

P260 Do not breathe mist / 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.

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

Biocide (528/2012/CE) contains:

1,23 g/100g Peracetic acid

6,09 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
2,5 - 10	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 - Eye Dam. 1: H318 - Aquatic Chronic 3: H412
2,5 - 10	Isotridecanol, ethoxylated CAS: 9043-30-5, EINECS/ELINCS: 500-027-2 GHS/CLP: Acute Tox. 4: H302 - Eye Dam. 1: H318
2,5 - 10	Benzenesulphonic acid, 4-C10-13-sec-alkyl derivative CAS: 85536-14-7, EINECS/ELINCS: 287-494-3, Reg-No.: 01-2119490234-40-XXXX GHS/CLP: Acute Tox. 4: H302 - Skin Corr. 1C: H314 - Eye Dam. 1: H318 - Aquatic Chronic 3: H412
< 2,5	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. C: 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, 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.
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 soap and 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

No information available.

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.
Extinguishing media that must not be used	Foam. Dry powder.

5.2 Special hazards arising from the substance or mixture

Not combusted hydrocarbons.
Carbon monoxide (CO).
Has a fire-promoting effect due to release of oxygen.

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

Ensure adequate ventilation.
Use personal protective equipment (protective gloves, safety glasses, protective clothing).

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. general-purpose binder).
Dispose of absorbed material in accordance with the regulations.
Leaked liquid may be possibly sucked up in a suitable, prepared container.

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.
Keep away from open flames, hot surfaces and sources of ignition.
Remove soiled or soaked clothing immediately.
Do not eat, drink or smoke when using this product.
Clean skin thoroughly after work, apply skin cream.
Use barrier skin cream.

7.2 Conditions for safe storage, including any incompatibilities

Prevent penetration into the ground.
Keep only in original container.
Do not use zinc/aluminium containers.
Do not store together with metals.
Do not store together with oxidizing agents.
Do not store with alkalis.
Do not store with combustible materials.
Keep container in a well-ventilated place.
Keep container tightly closed.
Close containers in such a way to enable internal pressure to escape (e.g. excess pressure valve).
Protect from heat/overheating and from sun.
Recommended storage temperature: <30 °C.
Keep in a cool place.
Keep away from frost.
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)

Range [%]	Substance
2,5 - 10	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
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
	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)

Range [%]	Substance / EC LIMIT VALUES
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
	Eight hours: 10 ppm, 25 mg/m ³

DNEL

Range [%]	Substance
2,5 - 10	Benzenesulphonic acid, 4-C10-13-sec-alkyl derivative, CAS: 85536-14-7
	Industrial, dermal, Long-term - systemic effects: 170 mg/kg bw/day.
	Industrial, inhalative, Long-term - local effects: 12 mg/m ³ .
	Industrial, inhalative, Long-term - systemic effects: 12 mg/m ³ .
	general population, oral, Long-term - systemic effects: 0,85 mg/kg bw/day.
	general population, dermal, Long-term - systemic effects: 85 mg/kg bw/day.
	general population, inhalative, Long-term - systemic effects: 3 mg/m ³ .
2,5 - 10	Hydrogen peroxide, CAS: 7722-84-1
	Industrial, inhalative, Acute - local effects: 3 mg/m ³ .
	Industrial, inhalative, Long-term - systemic effects: 1,4 mg/m ³ .
	Industrial, inhalative, Long-term - local effects: 1,4 mg/m ³ .
	general population, inhalative, Acute - local effects: 1,93 mg/m ³ .
	general population, inhalative, Long-term - local effects: 0,21 mg/m ³ .
10 - 25	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 .
< 2,5	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 - systemic effects: 0,6 mg/m ³ .
	general population, inhalative, Acute - local effects: 0,6 mg/m ³ .
	general population, inhalative, Long-term - local effects: 0,6 mg/m ³ .

PNEC

Range [%]	Substance
-----------	-----------

2,5 - 10	Benzenesulphonic acid, 4-C10-13-sec-alkyl derivative, CAS: 85536-14-7
	sediment (seaater), 0,287 mg/kg.
	sediment (freshwater), 0,287 mg/kg.
	sewage treatment plants (STP), 3,43 mg/l.
	seawater, 0,0287 mg/l.
	freshwater, 0,287 mg/l.
	soil, 35 mg/kg.
2,5 - 10	Hydrogen peroxide, CAS: 7722-84-1
	soil, 0,0019 mg/kg.
	sewage treatment plants (STP), 4,66 mg/l.
	seawater, 0,0126 mg/l.
	freshwater, 0,0126 mg/l.
	sediment (seaater), 0,47 mg/kg.
	soil, 0,0023 mg/kg.
	sediment (freshwater), 0,47 mg/kg.
10 - 25	Acetic acid, CAS: 64-19-7
	sewage treatment plants (STP), 85 mg/l.
	freshwater, 3,058 mg/l.
	seawater, 0,3058 mg/l.
	sediment (seaater), 1,136 mg/kg.
	sediment (freshwater), 11,36 mg/kg.
< 2,5	Peracetic acid, CAS: 79-21-0
	freshwater, 0,000224 mg/l.
	sewage treatment plants (STP), 0,051 mg/l.
	sediment (freshwater), 0,00018 mg/kg.
	soil, 320 µg/kg.

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	Tightly fitting goggles.
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. Viton, >480 min (EN 374). Butyl rubber, >480 min (EN 374).
Skin protection	Acid-resistant protective clothing.
Other	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. Do not inhale gases/vapours/aerosols. Avoid contact with eyes and skin.
Respiratory protection	With excess of the limit value use breathing apparatus. Short term: filter apparatus, combination filter B-P2.
Thermal hazards	No information available.
Delimitation and monitoring of the environmental exposition	Comply with applicable environmental regulations limiting discharge to air, water and soil.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	liquid
Color	light yellow
Odor	pungent
Odour threshold	No information available.
pH-value	~2,8 (10 g/l)
pH-value [1%]	No information available.
Boiling point [°C]	~100
Flash point [°C]	> 60
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Oxidizing properties	May cause fire.
Vapour pressure/gas pressure [kPa]	23 hPa (20°C)
Density [g/ml]	~1,05 (20 °C / 68,0 °F)
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]	< -10
Autoignition temperature [°C]	not applicable
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

Self accelerating exothermic reaction with evolution of oxygen.
Reactions with combustible substances.
Reactions with alkalis (lyes).
Reactions with reducing agents.
Reactions with organic substances.
Reactions with metals.

10.4 Conditions to avoid

To avoid thermal decomposition, do not overheat.
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

Range [%]	Substance
2,5 - 10	Isotridecanol, ethoxylated, CAS: 9043-30-5
	LD50, dermal, Rat: > 2000 mg/kg (Lit.).
	LD50, oral, Rat: 1940 mg/kg (Lit.).
2,5 - 10	Benzenesulphonic acid, 4-C10-13-sec-alkyl derivative, CAS: 85536-14-7
	LD50, oral, Rat: 1350 mg/kg.
2,5 - 10	Hydrogen peroxide, CAS: 7722-84-1
	LD50, dermal, Rabbit: > 2000 mg/kg (35 %; US-EPA-Methode).
	LD50, dermal, Rabbit: 9200 mg/kg (70 %; Lit.).
	LD50, oral, Rat: > 225 mg/kg (OECD 401).
	LC50, inhalative, Rat: > 0,17 mg/l (US-EPA-Methode).
10 - 25	Acetic acid, CAS: 64-19-7
	LD50, dermal, Rabbit: 1060 mg/kg.
	LD50, oral, Rat: 3310 mg/kg.
	LC50, inhalative, Rat: 40 mg/l (4 h).
< 2,5	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.
 No classification.
 Calculation method

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.
 No classification.
 Calculation method

Mutagenicity Toxicological data of complete product are not available.
 No classification.
 Calculation method

Reproduction toxicity Toxicological data of complete product are not available.
 No classification.
 Calculation method

Carcinogenicity Toxicological data of complete product are not available.
 No classification.
 Calculation method

Aspiration hazard Toxicological data of complete product are not available.
 No classification.

General remarks If swallowed - risk of perforation!
 Toxicological data of complete product are not available.
 The product was classified on the basis of the calculation procedure of the preparation directive.
 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

Range [%]	Substance
2,5 - 10	Isotridecanol, ethoxylated, CAS: 9043-30-5
	LC50, (96h), fish: >1 - 10 mg/l (OECD 203).
	EC50, (72h), <i>Desmodesmus subspicatus</i> : >1 - 10 mg/l (OECD 201).
	EC50, (48h), <i>Daphnia magna</i> : >1 - 10 mg/l (OECD 202).
2,5 - 10	Benzenesulphonic acid, 4-C10-13-sec-alkyl derivative, CAS: 85536-14-7
	LC50, (96h), <i>Cyprinus carpio</i> : 1-10 mg/l.
	EC50, (72h), <i>Scenedesmus subspicatus</i> : 10-100 mg/l.
	EC50, (48h), <i>Daphnia magna</i> : 1-10 mg/l.
2,5 - 10	Hydrogen peroxide, CAS: 7722-84-1
	LC50, (96h), <i>Pimephales promelas</i> : 16,4 mg/l (100 %).
	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.
	EC50, (72h), <i>Skeletonema costatum</i> : 1,38-2,6 mg/l.
	NOEC, (72h), <i>Skeletonema costatum</i> : 0,63 mg/l (100 %).
	NOEC, (96h), <i>Pimephales promelas</i> : 5 mg/l.
	NOEC, (21d), <i>Daphnia magna</i> : 0,63 mg/l (100 %).
10 - 25	Acetic acid, CAS: 64-19-7
	LC50, (96h), <i>Pimephales promelas</i> : 88 mg/l.
	LC50, (96h), <i>Lepomis macrochirus</i> : 75 mg/l.
	EC50, (24h), <i>Daphnia magna</i> : 95 mg/l.
	EC10, <i>Pseudomonas putida</i> : 1000 mg/l (0,5 h).
< 2,5	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 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

Ecological data of complete product are not available.

No classification on the basis of the calculation procedure of the preparation directive.

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.

Waste no. (recommended)

070601*

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

See SECTION 14.2 in accordance with UN shipping name

14.2 UN proper shipping name

Transport by land according to ADR/RID

UN 3149 Hydrogen peroxide and peroxyacetic acid, mixture, stabilized (ENVIRONMENTALLY HAZARDOUS) 5.1 & 8 II

- Classification Code

OC1

- Label



- ADR LQ

1 I

- ADR 1.1.3.6 (8.6)

Transport category (tunnel restriction code) 2 (E)

Inland navigation (ADN)

UN 3149 Hydrogen peroxide and peroxyacetic acid, mixture, stabilized (ENVIRONMENTALLY HAZARDOUS) 5.1 & 8 II

- Classification Code

OC1

- Label



Marine transport in accordance with IMDG

UN 3149 Hydrogen peroxide and peroxyacetic acid mixture, stabilized 5.1 & 8 II MARINE POLLUTANT

- EMS

F-H, S-Q

- Label



- IMDG LQ

1 I

Air transport in accordance with IATA UN 3149 Hydrogen peroxide and peroxyacetic acid mixture, stabilized 5.1 & 8 II

- Label



14.3 Transport hazard class(es)

See SECTION 14.2 in accordance with UN shipping name

14.4 Packing group

See SECTION 14.2 in accordance with UN shipping name

14.5 Environmental hazards

See SECTION 14.2 in accordance with UN shipping name

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 (2015).
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 (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 3)

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.
H335 May cause respiratory irritation.
H302+H332 Harmful if swallowed or if inhaled.
H271 May cause fire or explosion; strong oxidiser.
H412 Harmful to aquatic life with long lasting effects.
H318 Causes serious eye damage.
H302 Harmful if swallowed.
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

Ox. Liq. 2: H272 May intensify fire; oxidiser. (Expert judgement)
Skin Corr. 1B: H314 Causes severe skin burns and eye damage. (Calculation method)
Eye Dam. 1: H318 Causes serious eye damage. (Expert judgement)
STOT SE 3: H335 May cause respiratory irritation. (Calculation method)
Met. Corr. 1: H290 May be corrosive to metals. (Calculation method)
Acute Tox. 4: H302 Harmful if swallowed. (Calculation method)
Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects. (Calculation method)
Org. Perox. G: (Expert judgement)

Modified position

SECTION 9 been added: No information available.
SECTION 9 deleted: not determined
SECTION 11 been added: Calculation method
SECTION 11 been added: No classification.
SECTION 11 been added: Toxicological data of complete product are not available.
SECTION 11 deleted: not determined
SECTION 11 been added: May cause respiratory irritation.
SECTION 11 been added: Calculation method
SECTION 11 been added: Toxicological data of complete product are not available.
SECTION 12 been added: No information available.
SECTION 12 deleted: not determined



Copyright: Chemiebüro®

