

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

1.1 Product identifier

KRONES colclean DI 1003
Article number: 0903298073, 0903298123

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@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

Org. Perox. F: H242 Heating may cause a fire.
Met. Corr. 1: H290 May be corrosive to metals.
Acute Tox. 4: H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.
Skin Corr. 1A: H314 Causes severe skin burns and eye damage.
STOT SE 3: H335 May cause respiratory irritation.
Aquatic Chronic 1: H410 Very toxic to aquatic life with long lasting effects.
Eye Dam. 1: H318 Causes serious eye damage.

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:

Hydrogen peroxide
Peracetic acid

Hazard statements

H242 Heating may cause a fire.
H290 May be corrosive to metals.
H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P501 Dispose of contents/container in accordance with local/national regulation.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P234 Keep only in original container.
P260 Do not breathe 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 [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.
P403+P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container in accordance with local/national regulation.

Special labelling

EUH071 Corrosive to the respiratory tract.

Biocide (528/2012/CE) contains:

5 g/100g Peracetic acid
30 g/100g Hydrogen peroxide
Registration: -

2.3 Other hazards

Physico-chemical hazards

Risk of decomposition! Keep away from contaminantes, metals, alkalis, reducing agents.

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
20 - 30	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
6 - 10	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
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 - Skin Corr. 1A: H314 - Acute Tox. 4: H312 - Aquatic Acute 1: H400 - STOT SE 3: H335 - Acute Tox. 3: H301 H331 - 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.
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

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.
Dizziness
Headache
Vertigo
Drowsiness
Nausea, vomiting.

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 foam, dry powder, water spray jet, carbon dioxide

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.
Has a fire-promoting effect due to release of oxygen.

5.3 Advice for firefighters

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

Cool containers at risk with water spray jet.
Collect contaminated firefighting water separately, must not be discharged into the drains.
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.
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

Pick up with absorbent material (e.g. sand, universal absorbent, diatomaceous earth).
Dispose of absorbed material in accordance with the regulations.
Flush away residues with water.

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.
Vacuuming in situ required.
Avoid spilling or spraying in enclosed areas.
Place the container in an upright position and protect it against falling over.
When diluting, always stir product into water.
Avoid contact with eyes and skin. Use personal protective equipment.
The normal safety precautions for handling chemicals must be observed.

May cause fire or explosion; strong oxidiser.
Keep away from open flames, hot surfaces and sources of ignition.
Do not smoke.
Use explosion-proofed equipment/fittings and non-sparking tools.

Do not eat, drink, smoke or take drugs at work.
Showers and eye wash stations should be provided.
Clean skin thoroughly after work, apply skin cream.
Use barrier skin cream.
Take off contaminated clothing and wash before reuse.
Contaminated work clothing should not be allowed out of the workplace.

7.2 Conditions for safe storage, including any incompatibilities

Provide acid-resistant floor.
Keep only in original container.
Provide ventilation of containers.

Do not store with oxidizing or self-igniting materials.
Do not store with combustible and/or organic materials.
Do not store with alkalis.
Do not store together with reducing agents.

Always close container tightly after removal of product.
Container should not be gas-tight.
Keep container in a well-ventilated place.
Protect from heat/overheating and from sun.
Protect from contamination.
Do not keep at temperatures above 40°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
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
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

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
Short-term (15-minute): 20 ppm, 50 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, Long-term - local effects: 25 mg/m ³ .
general population, inhalative, Acute - 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 .

PNEC

Substance
Acetic acid, CAS: 64-19-7
sewage treatment plants (STP), 85 mg/l.
soil, 0,478 mg/kg.
sediment (seaater), 1,136 mg/kg.
sediment (freshwater), 11,36 mg/kg.
seawater, 0,3058 mg/l.
freshwater, 3,058 mg/l.
Hydrogen peroxide, CAS: 7722-84-1
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.

soil, 0,0023 mg/kg.

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. 0,22 mm, Nitrile rubber, >480 min (EN 374-1/-2/-3). 0,65 mm, Polychloroprene, >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. Half Mask Respirator with ABEKP2 filter. (DIN EN 14387) Multi-purpose filter ABEK2P3 (DIN EN 14387)
Thermal hazards	See SECTION 7.
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 clear
Odor	pungent
Odour threshold	not applicable
pH-value	ca. 0,6 (20°C)
pH-value [1%]	No information available.
Boiling point [°C]	> 60 °C (Decomposition)
Flash point [°C]	- (ISO 2719)
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Oxidising properties	no UN Test O.2 (oxidizing liquids)
Vapour pressure/gas pressure [kPa]	2,7 kPa (20°C)
Density [g/ml]	1,12 (20 °C / 68,0 °F)
Bulk density [kg/m³]	not applicable
Solubility in water	completely miscible
Partition coefficient [n-octanol/water]	-1,25
Viscosity	ca. 1,19 mm²/s (20°C) (DIN 51562)
Relative vapour density determined in air	No information available.
Evaporation speed	No information available.
Melting point [°C]	ca. -28
Autoignition temperature [°C]	No information available.
Decomposition temperature [°C]	>= 60

9.2 Other information

Ignition Temperature (DIN 51794): 395 °C
Surface tension: ca. 53 mN/m (20°C)(ISO 3696)

SECTION 10: Stability and reactivity

10.1 Reactivity

Strong oxidizing agent.
The contact with organic materials f. e. wood, cotton or straw may cause a fire.
Self accelerating exothermic reaction with evolution of oxygen.
Upon decomposition in closed containers and tubes risk of bursting due to buildup of overpressure.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Reactions with oxidizing agents.
Reactions with alkalis (lyes).
Reactions with combustible and/or substances.
Reactions with reducing agents.

10.4 Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition.
Sunlight
Warming

10.5 Incompatible materials

See SECTION 10.3.

10.6 Hazardous decomposition products

In the case of heating following (decomposition) products may occur:
Oxygen.
Aqueous vapor.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product
ATE-mix, inhalativ (vapour), 11 mg/l.
ATE-mix, dermal, 1100 mg/kg.
ATE-mix, oral, 500 mg/kg.
Substance
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).
Hydrogen peroxide, CAS: 7722-84-1
LD50, oral, Rat: 1190-1270 mg/kg (35%).
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).
Peracetic acid, CAS: 79-21-0
LD50, dermal, Rat: 1147 mg/kg (Solution 5%).
LD50, dermal, Rabbit: 1990 - 1957 mg/kg (Solution 12%).
LD50, oral, Rat: 1859 mg/kg (Solution 5%).
LD50, oral, Rat: 1015 mg/kg (OECD TG 401; Solution 15%).
LD50, oral, Rat: 9 - 203 mg/l (Lit.).
LC50, inhalativ (vapour), Rat: > 0,5 mg/l/4h (36%) (OECD TG 403).
NOEL, oral, Rat: 5 mg/kg/90d (OECD TG 408; Solution 5%).

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	May cause respiratory irritation. Calculation method
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	

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.
LC50, (96h), <i>Pimephales promelas</i> : 88 mg/l.
EC50, (24h), <i>Daphnia magna</i> : 95 mg/l.
EC10, <i>Pseudomonas putida</i> : 1000 mg/l (0,5 h).
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, (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 %).
Peracetic acid, CAS: 79-21-0
LC50, (96h), <i>Oncorhynchus mykiss</i> : 0,9 - 2,0 mg/l (Lit.).
LC50, (96h), fish: 11 mg/l (Lit.).
EC50, (72h), <i>Pseudokirchneriella subcapitata</i> : 0,86 mg/l (100%) (OECD TG 201).
EC50, (48h), <i>Daphnia magna</i> : 0,5 - 1,0 mg/l (Lit.).
EC50, (72h), <i>Pseudokirchneriella subcapitata</i> : 0,16 mg/l (100%) (US-EPA-Methode).
EC50, (3h), Bacteria: 5,1 mg/l (OECD TG 209).
IC50, <i>Selenastrum capricornutum</i> : 0,18 mg/l/120h (US-EPA-Methode).
NOEC, <i>Danio rerio</i> : 0,015 mg/l/33d (OECD TG 210).
NOEC, (21d), <i>Daphnia magna</i> : 0,05 mg/ (OECD TG 211).

12.2 Persistence and degradability

Hydrolyse: 48h (25°C, pH 4) (92/69/EWG, C.7)
 Hydrolyse: 48h (25°C, pH 7) (92/69/EWG, C.7)
 Hydrolyse: 3,6h (25°C, pH 9) (92/69/EWG, C.7)

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 product is readily biodegradable.
 CAS 79-21-0 (40%): 98%, 28d (OECD TG 301 E)

12.3 Bioaccumulative potential

logKow: -1,25

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) 070601*
070101*

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 3149

Inland navigation (ADN) 3149

Marine transport in accordance with IMDG 3149

Air transport in accordance with IATA 3149

14.2 UN proper shipping name

Transport by land according to ADR/RID Hydrogen peroxide and peroxyacetic acid, mixture, stabilized

- 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) Hydrogen peroxide and peroxyacetic acid, mixture, stabilized

- Classification Code OC1

- Label 

Marine transport in accordance with IMDG Hydrogen peroxide and peroxyacetic acid mixture, stabilized

- EMS F-H, S-Q

- Label 

- IMDG LQ 1 I

Air transport in accordance with IATA Hydrogen peroxide and peroxyacetic acid mixture, stabilized

- Label 

14.3 Transport hazard class(es)

Transport by land according to ADR/RID 5.1

Inland navigation (ADN) 5.1

Marine transport in accordance with IMDG 5.1

Air transport in accordance with IATA 5.1

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	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); 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)	ca. 10 %

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)

H410 Very toxic to aquatic life with long lasting effects.
H301+H331 Toxic if swallowed or if inhaled.
H400 Very toxic to aquatic life.
H312 Harmful in contact with skin.
H242 Heating may cause a fire.
H226 Flammable liquid and vapour.
H412 Harmful to aquatic life with long lasting effects.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H302+H332 Harmful if swallowed or if inhaled.
H314 Causes severe skin burns and eye damage.
H271 May cause fire or explosion; strong oxidiser.

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

Org. Perox. F: H242 Heating may cause a fire. (Calculation method)
Met. Corr. 1: H290 May be corrosive to metals. (Calculation method)
Acute Tox. 4: H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled. (Calculation method)
Skin Corr. 1A: H314 Causes severe skin burns and eye damage. (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)
Eye Dam. 1: H318 Causes serious eye damage. (Calculation method)

Modified position

SECTION 2 been added: H318 Causes serious eye damage.
SECTION 2 been added: Eye Dam. 1
SECTION 2 been added: P501 Dispose of contents/container in accordance with local/national regulation.
SECTION 2 been added: Risk of decomposition! Keep away from contaminants, metals, alkalis, reducing agents.
SECTION 4 been added: Dizziness
SECTION 4 been added: Headache
SECTION 4 been added: Vertigo
SECTION 4 been added: Drowsiness
SECTION 4 been added: Nausea, vomiting.
SECTION 5 been added: Collect contaminated firefighting water separately, must not be discharged into the drains.
SECTION 7 been added: Contaminated work clothing should not be allowed out of the workplace.
SECTION 7 been added: Avoid contact with eyes and skin. Use personal protective equipment.
SECTION 7 been added: The normal safety precautions for handling chemicals must be observed.
SECTION 7 been added: Do not keep at temperatures above [x].
SECTION 7 been added: Take off contaminated clothing and wash before reuse.
SECTION 8 been added: Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
SECTION 9 been added: No information available.
SECTION 9 deleted: not determined
SECTION 11 been added: Risk of serious damage to eyes.
SECTION 11 been added: Calculation method
SECTION 11 been added: Calculation method
SECTION 11 deleted: not determined
SECTION 11 been added: Based on the available information, the classification criteria are not fulfilled.
SECTION 11 deleted: not determined
SECTION 11 been added: May cause respiratory irritation.
SECTION 11 been added: Calculation method

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