EU safety data sheet

Trade name: KRONES colclean DI 1011

Current version : 2.0.2, issued: 13.08.2021 **Replaced version:** 2.0.1, issued: 08.06.2021 **Region:** GB

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

1.1 Product identifier

Trade name

KRONES colclean DI 1011

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

Relevant identified uses of the substance or mixture
Disinfectant

Uses advised against
No data available.

1.3 Details of the supplier of the safety data sheet

Address
KIC KRONES Internationale Cooperationsgesellschaft mbH
Böhmerwaldstraße 5
93073 Neutraubling

Telephone no. +49 9401 70-3020
e-mail kic@kic-krones.com

Advice on Safety Data Sheet
sdb_info@umco.de

1.4 Emergency telephone number

For medical advice (in German and English):
+49 (0)551 192 40 (Giftinformationszentrum Nord)
In case of transport incidents and other emergencies:
+44 (0) 1235 239 670 (NCEC, National Chemical Emergency Centre)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 (CLP)
Acute Tox. 4; H302
Acute Tox. 4; H312
Acute Tox. 4; H332
Aquatic Chronic 1; H410
Eye Dam. 1; H318
Met. Corr. 1; H290
Org. Perox. F; H242
Skin Corr. 1A; H314

Classification information
Classification and labelling with respect to acute dermal toxicity are based on toxicological studies performed on the product (mixture).
Classification and labelling with respect to acute inhalative toxicity are based on toxicological studies performed on the product (mixture).
This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:
Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP
Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)

Hazard pictograms


GHS02


GHS05


GHS07


GHS09

Signal word
Danger

Hazardous component(s) to be indicated on label:
Acetic acid
hydrogen peroxide solution
peracetic acid . . . %

Hazard statement(s)

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.
H410	Very toxic to aquatic life with long lasting effects.

Hazard statements (EU)

EUH071	Corrosive to the respiratory tract.

Precautionary statement(s)

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P234	Keep only in original packaging.
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 [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	Store in a well-ventilated place.
P411	Store at temperatures not exceeding 30 °C.
P501	Dispose of contents/container to a facility in accordance with local and national regulations.

2.3 Other hazards
No data available.

SECTION 3: Composition/information on ingredients

3.1 Substances
Not applicable. The product is not a substance.

3.2 Mixtures
Hazardous ingredients

No	Substance name		Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration	%
1	**Acetic acid**			
	64-19-7 200-580-7 607-002-00-6 01-2119475328-30	Flam. Liq. 3; H226 Skin Corr. 1A; H314 Eye Dam. 1; H318	>= 10.00 - < 25.00	wt%
2	**hydrogen peroxide solution**			
	7722-84-1 231-765-0 008-003-00-9 01-2119485845-22	Acute Tox. 4; H302 Acute Tox. 4; H332 Ox. Liq. 1; H271 Skin Corr. 1A; H314 Aquatic Chronic 3; H412 Eye Dam. 1; H318	>= 10.00 - < 25.00	wt%

		STOT SE 3; H335		
3	**peracetic acid . . . %**		**pls. refer to footnote (2)**	
	79-21-0 201-186-8 607-094-00-8 01-2119531330-56	Flam. Liq. 3; H226 Org. Perox. D; H242 Acute Tox. 3; H301 Acute Tox. 4; H312 Acute Tox. 3; H331 Skin Corr. 1A; H314 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 10.00 - < 25.00	wt%

Full Text for all H-phrases and EUH-phrases: pls. see section 16
(2) According to the latest state of knowledge and applying the criteria set out in annex I to Regulation (EC) No 1272/2008 , the aforementioned classification is required. This classification goes beyond the classification set out in table 3, Annex VI to Regulation (CE) No 1272/2008.

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
1	B	Skin Irrit. 2; H315: C >= 10% Eye Irrit. 2; H319: C >= 10% Skin Corr. 1B; H314: C >= 25% Skin Corr. 1A; H314: C >= 90%	-	-
2	B	Eye Irrit. 2; H319: C >= 5% Eye Dam. 1; H318: C >= 8% Skin Irrit. 2; H315: C >= 35% STOT SE 3; H335: C >= 35% Skin Corr. 1B; H314: C >= 50% Ox. Liq. 2; H272: C >= 50% Aquatic Chronic 3; H412: C >= 63% Ox. Liq. 1; H271: C >= 70% Skin Corr. 1A; H314: C >= 70%	-	-
3	-	STOT SE 3; H335: C >= 1% Skin Corr. 1C; H314: C >= 3% Skin Corr. 1B; H314: C >= 5% Skin Corr. 1A; H314: C >= 10%	-	M = 10

Full text for the notes: pls. see section 16 “Notes relating to the identification, classification and labelling of substances ((EC) No 1272/2008, Annex VI)”.

Acute toxicity estimate (ATE) values			
No	**oral**	**dermal**	**inhalative**
3	63 mg/kg bodyweight		

SECTION 4: First aid measures

4.1 Description of first aid measures

General information
Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. In case of persisting adverse effects, consult a physician.

After inhalation
Remove affected persons from dangerous area by observing suitable respiratory protection measures. Ensure supply of fresh air. If breathing is irregular or stopped, administer artificial respiration. In case of persisting adverse effects consult a physician.

After skin contact
When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists.

After eye contact
Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Call a doctor immediately.

After ingestion
Rinse the mouth thoroughly with water. Do not induce vomiting. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed
No data available.

4.3 Indication of any immediate medical attention and special treatment needed
No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Water; Water mist

Unsuitable extinguishing media
Dry powder; Foam

5.2 Special hazards arising from the substance or mixture
In the event of fire, the following can be released: Oxygen; In case of fire: danger of pressure build up, which could result in container rupture.

5.3 Advice for firefighters
Use self-contained breathing apparatus. Wear protective clothing. Cool endangered containers with water spray jet. Run-off water from fire fighting must not be discharged into drains or enter surface water. Do not inhale explosion and/or combustion byproducts.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel
Refer to protective measures listed in sections 7 and 8. Avoid contact with skin, eyes and clothing. Remove persons to safety. Ensure adequate ventilation. Keep away from ignition sources.

For emergency responders
Personal protective equipment (PPE) - see section 8.

6.2 Environmental precautions
Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. In case of entry into waterways, soil or drains, inform the responsible authorities.

6.3 Methods and material for containment and cleaning up
Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Do not return leaked product to original canister or tank due to risk of decomposition.

6.4 Reference to other sections
Information regarding safe handling, see section 7. Information regarding personal protective measures, see section 8. Information regarding waste disposal, see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling
Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances. Provide good ventilation at the work area (local exhaust ventilation, if necessary).

General protective and hygiene measures
Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Do not inhale vapours. Avoid contact with eyes and skin. Wash hands before breaks and after work. Remove contaminated clothing and shoes and launder thoroughly before reusing.

Advice on protection against fire and explosion
Keep away from sources of ignition - refrain from smoking. Isolate from sources of heat, sparks and open flame.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions
Keep container tightly closed and dry in a cool, well-ventilated place. Protect from direct sunlight. Keep from freezing.

Recommended storage temperature
Value < 20 °C

Requirements for storage rooms and vessels
Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers of same material as the original.
Inappropriate material iron; aluminium; zinc

Incompatible products
Substances to be avoided, see section 10.

7.3 Specific end use(s)
No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

No	Substance name	CAS no.		EC no.	
1	**Acetic acid**	**64-19-7**		**200-580-7**	
	2017/164/EU				
	Acetic acid				
	WEL short-term (15 min reference period)	50	mg/m³	20	ppm
	WEL long-term (8-hr TWA reference period)	25	mg/m³	10	ppm
	List of approved workplace exposure limits (WELs) / EH40				
	Acetic acid				
	WEL short-term (15 min reference period)	50	mg/m³	20	ppm
	WEL long-term (8-hr TWA reference period)	25	mg/m³	10	ppm
2	**hydrogen peroxide solution**	**7722-84-1**		**231-765-0**	
	List of approved workplace exposure limits (WELs) / EH40				
	Hydrogen peroxide				
	WEL short-term (15 min reference period)	2.8	mg/m³	2	ppm
	WEL long-term (8-hr TWA reference period)	1.4	mg/m³	1	ppm

DNEL, DMEL and PNEC values

DNEL values (worker)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	**Acetic acid**			**64-19-7** **200-580-7**	
	inhalative	Long term (chronic)	local	25	mg/m³
	inhalative	Short term (acut)	local	25	mg/m³
2	**hydrogen peroxide solution**			**7722-84-1** **231-765-0**	
	inhalative	Short term (acut)	local	3	mg/m³
	inhalative	Long term (chronic)	local	1.4	mg/m³
3	**peracetic acid . . . %**			**79-21-0** **201-186-8**	
	inhalative	Long term (chronic)	systemic	0.56	mg/m³
	inhalative	Short term (acut)	systemic	0.56	mg/m³
	inhalative	Long term (chronic)	local	0.56	mg/m³
	inhalative	Short term (acut)	local	0.56	mg/m³

DNEL value (consumer)

No	Substance name			CAS / EC no
	Route of exposure	Exposure time	Effect	Value

1	**Acetic acid**			**64-19-7 200-580-7**	
	inhalative	Long term (chronic)	local	25	mg/m³
	inhalative	Short term (acut)	local	25	mg/m³
2	**hydrogen peroxide solution**			**7722-84-1 231-765-0**	
	inhalative	Short term (acut)	local	1.93	mg/m³
	inhalative	Long term (chronic)	local	0.21	mg/m³
3	**peracetic acid . . . %**			**79-21-0 201-186-8**	
	oral	Long term (chronic)	systemic	1.25	mg/kg/day
	oral	Short term (acut)	systemic	1.25	mg/kg/day
	inhalative	Long term (chronic)	systemic	0.28	mg/m³
	inhalative	Short term (acut)	systemic	0.28	mg/m³
	inhalative	Long term (chronic)	local	0.28	mg/m³
	inhalative	Short term (acut)	local	0.28	mg/m³

PNEC values

No	Substance name		CAS / EC no	
	ecological compartment	**Type**	**Value**	
1	**Acetic acid**		**64-19-7 200-580-7**	
	water	fresh water	3.058	mg/L
	water	marine water	0.3058	mg/L
	water	fresh water sediment	11.36	mg/kg
	water	marine water sediment	1.136	mg/kg
	water	Aqua intermittent	30.58	mg/L
	soil	-	0.47	mg/kg
	sewage treatment plant	-	85	mg/L
2	**hydrogen peroxide solution**		**7722-84-1 231-765-0**	
	water	fresh water	0.0126	mg/L
	water	marine water	0.0126	mg/L
	water	fresh water sediment	0.047	mg/kg dry weight
	water	Aqua intermittent	1.38	mg/L
	soil	-	0.0019	mg/kg moist mass
	soil	-	0.0023	mg/kg dry weight
	sewage treatment plant	-	4.66	mg/L
3	**peracetic acid . . . %**		**79-21-0 201-186-8**	
	water	fresh water	0	mg/L
	water	marine water	0	mg/L
	water	Aqua intermittent	0.002	mg/L
	water	fresh water sediment	0	mg/kg dry weight
	water	marine water sediment	0	mg/kg dry weight
	soil	-	0.32	mg/kg dry weight
	sewage treatment plant	-	0.051	mg/L

8.2 Exposure controls

Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn.

Personal protective equipment

Respiratory protection
If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.
Respiratory filter (gas) : B-NO-P2, B-P2

Eye / face protection
Safety glasses with side protection shield (EN 166)

Hand protection
Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material	butyl rubber		
Material thickness	>	0.5	mm
Breakthrough time	>	480	min
Appropriate Material	Fluorocarbon rubber (Viton)		
Inappropriate material	nitrile rubber		
Inappropriate material	rubber		
Inappropriate material	Leather		
Inappropriate material	fabric		

Other
Chemical-resistant work clothes.

Environmental exposure controls
No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

State of aggregation
liquid

Form/Colour
liquid
colourless

Odour
pungent

pH value		
Value	2.9	

Boiling point / boiling range		
Value	105	°C

Melting point/freezing point		
Value	< -18	°C

Decomposition temperature		
Value	> 60	°C
Comments	SADT	
Comments	Value valid for plastic drums with 220 kg and smaller packages.	

Flash point		
Value	71.5	°C
Method	DIN EN ISO 2719	

Ignition temperature
No data available

Auto-ignition temperature

Value	°C
Comments	Product is not selfigniting.

Oxidising properties
oxidizer

Explosive properties
The product is not explosive. Formation of explosive/highly flammable air-vapour mixtures is possible during/after use.

Flammability
No data available

Lower explosion limit
No data available

Upper explosion limit
No data available

Vapour pressure
No data available

Relative vapour density
No data available

Relative density	
Value	1.149
Method	REACH A.3

Density		
Value	1.15	g/cm³
Reference temperature	20	°C

Solubility in water	
Comments	Completely miscible

Solubility
No data available

Partition coefficient n-octanol/water (log value)				
No	**Substance name**	**CAS no.**		**EC no.**
1	**hydrogen peroxide solution**	**7722-84-1**		**231-765-0**
log Pow		-1.57		
Source		ECHA		
2	**peracetic acid . . . %**	**79-21-0**		**201-186-8**
log Pow		-0.66	- -0.46	
Reference temperature		25	°C	
Method		EPA OPPTS 830.7550		
Source		ECHA		

Viscosity		
Value	1.618	mm²/s
Source	OECD 114	

Particle characteristics
No data available

9.2 Other information

Other information
Surface tension: < 60 mN/m

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable at ambient temperature.

10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

10.3 Possibility of hazardous reactions

Dangerous reactions are not to be expected when handling product according to its intended use. Self-accelerating exothermic reaction under development of oxygen.

10.4 Conditions to avoid

High temperatures. Protect from heat and direct sunlight.

10.5 Incompatible materials

Metals; Alkalis; Reducing agents; combustible materials; solvents; Metal salts

10.6 Hazardous decomposition products

Oxygen

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity (result of the ATE calculation for the mixture)	
No	**Product Name**
1	**KRONES colclean DI 1011**
ATE (Mixture)	389.38 mg/kg
Method	Calculation method according Regulation (EC) No 1272/2008, (CLP), annex I, part 3, section 3.1.3.6.

Acute oral toxicity			
No	**Substance name**	**CAS no.**	**EC no.**
1	**hydrogen peroxide solution**	**7722-84-1**	**231-765-0**
LD50		693.7	mg/kg bodyweight
Species		rat (female)	
with reference to		70% Solution	
Method		OECD 401	
Source		ECHA	
2	**peracetic acid . . . %**	**79-21-0**	**201-186-8**
LD50		63 - 86	mg/kg bodyweight
Species		rat	
Method		EPA OPP 81-1	
Source		ECHA	

Acute dermal toxicity	
No	**Product Name**
1	**KRONES colclean DI 1011**
Comments	The acute toxicity data refer to the dossier submitted for the active substance CAS: 79-21-0.

Acute inhalational toxicity	
No	**Product Name**
Comments	The acute toxicity data refer to the dossier submitted for the active substance CAS: 79-21-0.

Skin corrosion/irritation			
No	**Substance name**	**CAS no.**	**EC no.**
1	**hydrogen peroxide solution**	**7722-84-1**	**231-765-0**
Species		rabbit	
with reference to		70% solution	
Method		OECD 404	
Source		ECHA	
Evaluation		corrosive	
2	**peracetic acid . . . %**	**79-21-0**	**201-186-8**
Species		rabbit	
Method		OECD 404	
Source		ECHA	
Evaluation		corrosive	

Serious eye damage/irritation			
No	**Substance name**	**CAS no.**	**EC no.**
1	**hydrogen peroxide solution**	**7722-84-1**	**231-765-0**
Species	rabbit		
with reference to	10% Solution		
Method	OECD 405		
Source	ECHA		
Evaluation	strongly irritant		
2	**peracetic acid . . . %**	**79-21-0**	**201-186-8**
Species	rabbit		
Source	ECHA		
Evaluation	corrosive		

Respiratory or skin sensitisation			
No	**Substance name**	**CAS no.**	**EC no.**
1	**hydrogen peroxide solution**	**7722-84-1**	**231-765-0**
Route of exposure	Skin		
Source	ECHA		
Evaluation	non-sensitizing		
2	**peracetic acid . . . %**	**79-21-0**	**201-186-8**
Route of exposure	Skin		
Species	guinea pig		
Method	GPMT, EU B.6		
Source	ECHA		
Evaluation	non-sensitizing		

Germ cell mutagenicity			
No	**Substance name**	**CAS no.**	**EC no.**
1	**hydrogen peroxide solution**	**7722-84-1**	**231-765-0**
		2000	mg/l
Type of examination	Micronucleus test		
Species	mouse		
Method	OECD 474		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Reproduction toxicity
No data available

Carcinogenicity			
No	**Substance name**	**CAS no.**	**EC no.**
1	**hydrogen peroxide solution**	**7722-84-1**	**231-765-0**
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

STOT - single exposure			
No	**Substance name**	**CAS no.**	**EC no.**
1	**hydrogen peroxide solution**	**7722-84-1**	**231-765-0**
		26	mg/kg bw/d
Duration of exposure		90	day(s)
Species	Mouse (male)		
with reference to	35% Solution		
Method	OECD 408		
Source	ECHA		

STOT - repeated exposure			
No	**Substance name**	**CAS no.**	**EC no.**
1	**hydrogen peroxide solution**	**7722-84-1**	**231-765-0**
		2.9	mg/kg
Duration of exposure		28	day(s)
Species	rat		
Method	OECD 412		
Source	ECHA		

Aspiration hazard
No data available

11.2 Information on other hazards

Endocrine disrupting properties
No data available.

Other information
No data available.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish (acute)				
No	**Substance name**	**CAS no.**		**EC no.**
1	**hydrogen peroxide solution**	**7722-84-1**		**231-765-0**
LC50		16.4		mg/l
Duration of exposure		96		h
Species	Pimephales promelas			
Method	EPA			
Source	ECHA			
2	**peracetic acid . . . %**	**79-21-0**		**201-186-8**
LC50		0.53		mg/l
Duration of exposure		96		h
Species	Oncorhynchus mykiss			
Method	OECD 203			
Source	ECHA			

Toxicity to fish (chronic)				
No	**Substance name**	**CAS no.**		**EC no.**
1	**peracetic acid . . . %**	**79-21-0**		**201-186-8**
NOEC		0.002		mg/l
Duration of exposure		33		day(s)
Species	Danio rerio			
Method	OECD 210			
Source	ECHA			

Toxicity to Daphnia (acute)				
No	**Substance name**	**CAS no.**		**EC no.**
1	**hydrogen peroxide solution**	**7722-84-1**		**231-765-0**
EC50		2.4		mg/l
Duration of exposure		48		h
Species	Daphnia pulex			
Method	EPA			
Source	ECHA			
2	**peracetic acid . . . %**	**79-21-0**		**201-186-8**
EC50		0.73		mg/l
Duration of exposure		48		h
Species	Daphnia magna			
Method	OECD 202			
Source	ECHA			

Toxicity to Daphnia (chronic)				
No	**Substance name**	**CAS no.**		**EC no.**
1	**peracetic acid . . . %**	**79-21-0**		**201-186-8**
NOEC		0.012		mg/l
Duration of exposure		21		day(s)
Species	Daphnia magna			
Method	OECD 211			
Source	ECHA			

Toxicity to algae (acute)

No	Substance name	CAS no.	EC no.
1	hydrogen peroxide solution	7722-84-1	231-765-0

ErC50		2.62	mg/l
Duration of exposure		72	h
Species	Skeletonema costatum		
Method	OECD 201		
Source	ECHA		

2	peracetic acid . . . %	79-21-0	201-186-8

EC50		0.16	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Source	ECHA		

Toxicity to algae (chronic)

No	Substance name	CAS no.	EC no.
1	hydrogen peroxide solution	7722-84-1	231-765-0

NOEC		0.63	mg/l
Duration of exposure		72	h
Species	Skeletonema costatum		
Method	OECD 201		
Source	ECHA		

Bacteria toxicity

No data available

12.2 Persistence and degradability

Biodegradability

No	Substance name	CAS no.	EC no.
1	hydrogen peroxide solution	7722-84-1	231-765-0

Source	ECHA
Evaluation	readily biodegradable

2	peracetic acid . . . %	79-21-0	201-186-8

Type	aerobic biodegradation		
Value		98	%
Duration		28	day(s)
Method	OECD 301 E		
Source	ECHA		

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log value)

No	Substance name	CAS no.	EC no.
1	hydrogen peroxide solution	7722-84-1	231-765-0

log Pow		-1.57	
Source	ECHA		

2	peracetic acid . . . %	79-21-0	201-186-8

log Pow	-0.66	-	-0.46		
Reference temperature			25		°C
Method	EPA OPPTS 830.7550				
Source	ECHA				

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

No data available.

12.8 Other information

Other information
Do not discharge product unmonitored into the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Disposal of the product should be carried out in accordance with all applicable regulations following consultation with the responsible local authority and the disposal company in an authorised and suitable disposal facility.
Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

SECTION 14: Transport information

14.1 Transport ADR/RID/ADN

Class	5.2
Classification code	P1
Hazard identification no.	539
UN number	UN3109
Proper shipping name	ORGANIC PEROXIDE TYPE F, LIQUID
Technical name	peracetic acid . . . %
Tunnel restriction code	D
Label	5.2+8
Environmentally hazardous substance mark	Symbol "fish and tree"

14.2 Transport IMDG

Class	5.2
Subsidiary Risk	8
UN number	UN3109
Proper shipping name	ORGANIC PEROXIDE TYPE F, LIQUID
Technical name	peracetic acid . . . %
EmS	F-J, S-R
Label	5.2+8
Marine pollutant mark	Symbol "fish and tree"

14.3 Transport ICAO-TI / IATA

Class	5.2
Subrisk	8
UN number	UN3109
Proper shipping name	Organic peroxide type F, liquid
Technical name	peracetic acid . . . %
Label	5.2+8
Environmentally hazardous substance mark	Symbol "fish and tree"

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

14.7 Maritime transport in bulk according to IMO instruments

Not relevant

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)
According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation
According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES	
The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII.	No 3

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances	
This product is subject to Part I of Annex I, risk category:	E1, P6b
If the properties of the substance/product give rise to more than one classification, for the purposes of 2012/18/UE, the lowest qualifying quantities set out in Part 1 and Part 2 of Annex I shall apply.	

Other regulations
Adhere to the national sanitary and occupational safety regulations when using this product.

15.2 Chemical safety assessment

No data available.

SECTION 16: Other information

Sources of key data used to compile the data sheet:
Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.
Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.
National Threshold Limit Values of the corresponding countries as amended in each case.
Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.
The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

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

Notes relating to the identification, classification and labelling of substances and mixtures ((EC) No 1272/2008, Annex VI)

B	Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid … %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.

Creation of the safety data sheet
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This information is based on our present knowledge and experience.
The safety data sheet describes products with a view to safety requirements.
It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Alterations/supplements:
Alterations to the previous edition are marked in the left-hand margin.

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