EU safety data sheet

Trade name: KRONES colclean FC 4001

Current version : 1.1.2, issued: 08.06.2021 **Replaced version:** 1.1.1, issued: 26.02.2021 **Region:** GB

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

1.1 Product identifier

Trade name

KRONES colclean FC 4001

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

Relevant identified uses of the substance or mixture
cleaning compound

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
Fax no.	+49 9401 70-3696
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)
Aquatic Chronic 2; H411
Eye Dam. 1; H318
Met. Corr. 1; H290
Ox. Liq. 2; H272
Skin Corr. 1B; H314
STOT SE 3; H335

Classification information
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


GHS03


GHS05


GHS07


GHS09

Signal word
Danger

Hazardous component(s) to be indicated on label:
Acetic acid
Isotridecanol, ethoxylated
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. (4-Alkylbenzenesulfonic acid)
peracetic acid . . . %

Hazard statement(s)

H272	May intensify fire; oxidiser.
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H335	May cause respiratory irritation.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statement(s)

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

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	**Isotridecanol, ethoxylated**			
	9043-30-5 - - -	Acute Tox. 4; H302 Eye Dam. 1; H318	>= 5.00 - < 10.00	wt%
3	**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 STOT SE 3; H335	>= 5.00 - < 10.00	wt%
4	**Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. (4-Alkylbenzenesulfonic acid)**			
	85536-14-7 287-494-3 - 01-2119490234-40	Acute Tox. 4; H302 Skin Corr. 1C; H314 Aquatic Chronic 3; H412 Eye Dam. 1; H318	< 5.00	wt%
5	**peracetic acid . . . %**		**pls. refer to footnote (2)**	
	79-21-0	Flam. Liq. 3; H226	< 2.50	wt%

	201-186-8 607-094-00-8 01-2119531330-56	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		

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%	-	-
3	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%	-	-
5	-	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**
4	1470 mg/kg bodyweight		
5	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.

After inhalation
Remove affected persons from dangerous area by observing suitable respiratory protection measures. Ensure supply of fresh air. In case of persisting adverse effects consult a physician.

After skin contact
In case of contact with skin wash off immediately with soap and water. Seek medical attention.

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). Get immediate ophthalmic treatment.

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

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Water spray jet

Unsuitable extinguishing media
High power water jet

5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Oxidizing due to release of oxygen.

5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations. Do not allow run-off from fire fighting to enter drains or water courses.

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. Ensure adequate ventilation.

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).

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. Ensure adequate ventilation.

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. Use barrier skin cream. Provide eye wash fountain in work area. Have emergency shower available.

Advice on protection against fire and explosion
Keep away from sources of heat and ignition. Isolate from sources of heat, sparks and open flame. Take precautionary measures against static charges. No sparking tools should be used.

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. Keep from freezing.

Recommended storage temperature

Value	<	30	°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. Unsuitable container 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	**Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. (4-Alkylbenzenesulfonic acid)**			**85536-14-7 287-494-3**	
	dermal	Long term (chronic)	systemic	170	mg/kg/day
	inhalative	Long term (chronic)	systemic	12	mg/m³
	inhalative	Long term (chronic)	local	12	mg/m³
4	**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	**Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. (4-Alkylbenzenesulfonic acid)**			**85536-14-7 287-494-3**	
	oral	Long term (chronic)	systemic	0.85	mg/kg/day
	dermal	Long term (chronic)	systemic	85	mg/kg/day
	inhalative	Long term (chronic)	systemic	3	mg/m³
	inhalative	Long term (chronic)	local	3	mg/m³
4	**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	**Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. (4-Alkylbenzenesulfonic acid)**		**85536-14-7 287-494-3**	
	water	fresh water	0.287	mg/L
	water	marine water	0.0287	mg/L
	water	Aqua intermittent	0.0167	mg/L
	water	fresh water sediment	0.287	mg/kg dry weight
	water	marine water sediment	0.287	mg/kg dry weight
	soil	-	35	mg/kg dry weight
	sewage treatment plant	-	3.43	mg/L
4	**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.

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.

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
light yellow

Odour
pungent

pH value		
Value		2.9

Boiling point / boiling range			
Value	>	100	°C

Melting point/freezing point			
Value	<	-10	°C

Decomposition temperature
No data available

Flash point		
Value	97	°C
Method	DIN EN 22719	

Ignition temperature
No data available

Auto-ignition temperature	
Comments	Product is not selfigniting.

Oxidising properties
oxidizer

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	1.048
Method	REACH A.3

Density		
Value	1.05	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	2.648	mm²/s
Type	kinematic	
Method	OECD 114	

Particle characteristics
No data available

9.2 Other information

Other information
No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Dangerous reactions are not expected if the product is handled according to its intended use.

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.

10.4 Conditions to avoid
None, if handled according to intended use.

10.5 Incompatible materials
Alkalies; Reducing agents; combustible materials; Metals; Metal salts

10.6 Hazardous decomposition products
None, if handled according to intended use.

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 FC 4001**
Comments	The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE oral > 2000 mg/kg).

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	**Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. (4-Alkylbenzenesulfonic acid)**	**85536-14-7**		**287-494-3**	
LD50	appr.	1470			mg/kg bodyweight
Species	rat				
Method	OECD 401				
Source	ECHA				
3	**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 (result of the ATE calculation for the mixture)	
No	**Product Name**
1	**KRONES colclean FC 4001**
Comments	The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE dermal > 2000 mg/kg).

Acute dermal toxicity					
No	**Substance name**	**CAS no.**		**EC no.**	
1	**hydrogen peroxide solution**	**7722-84-1**		**231-765-0**	
LD50	>	2000			mg/kg bodyweight
Species	rabbit				
with reference to	35% Solution				
Method	OECD 402				
Source	ECHA				

Acute inhalational toxicity (result of the ATE calculation for the mixture)	
No	**Product Name**
1	**KRONES colclean FC 4001**
Comments	The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE for inhalation: > 20.000 ppmV (gases), > 20 mg/l (vapours), > 5 mg/l (dusts/mists).

Acute inhalational toxicity
No data available

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	5.1
Classification code	OC1
Packing group	II
Hazard identification no.	58
UN number	UN3149
Proper shipping name	HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED
Tunnel restriction code	E
Label	5.1+8
Environmentally hazardous substance mark	Symbol "fish and tree"

14.2 Transport IMDG

Class	5.1
Subsidiary Risk	8
Packing group	II
UN number	UN3149

Proper shipping name	HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED
EmS	F-H, S-Q
Label	5.1+8
Marine pollutant mark	Symbol "fish and tree"

14.3 Transport ICAO-TI / IATA

Class	5.1
Subrisk	8
Packing group	II
UN number	UN3149
Proper shipping name	Hydrogen peroxide and peroxyacetic acid mixture, stabilized
Label	5.1+8

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:	E2, P8
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

A chemical safety assessment has not been carried out for this substance.

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.
H242	Heating may cause a fire.
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.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
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.

Prod-ID 760624