

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

1.1. Product identifier

Product form : Mixture
Product name : Mida CHRIOX 5
Product code : 555
Type of product : Biocidal products (e.g. Disinfectants, pest control)
Product group : Mixture

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

1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use
Use of the substance/mixture : Biocide
Use of the substance/mixture : Stabilised mixture of peracetic acid, hydrogen peroxide, acetic acid and water

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer

Christeyns NV
Afrikalaan 182
9000 GENT
Belgium
T +32 (0)9/ 223 38 71, F +32 (0)9/ 233 03 44
info@christeyns.be, www.christeyns.com

Distributor

Christeyns Technologies Ireland Ltd
Station Road
F12 YW84 Newtown South Ballindine, Co. Mayo
Ireland
T 00353 94 936 4011
info@gannonchemicals.ie, Gannonchemicals.ie

Distributor

Christeyns UK Ltd.
Rutland Street
GB Bradford BD4 7EA
United Kingdom
T +44 (0)1274 39 32 86, F +44 (0)1274 30 91 43
info@christeyns.be, www.christeyns.com

Distributor

Christeyns Technologies Ltd.
Mazars, Block 3, Harcourt Centre, Harcourt Road
IE 2 Dublin
Ireland
T +353 1 8146022

Distributor

Christeyns Food Hygiene Ltd. Ltd
2, Cameron Court, Winwick Quay
GB WA2 8RE Warrington, Cheshire
United Kingdom
T +44 (0)1925 23 46 96
UK-foodinfo@christeyns.com, www.christeyns.com

1.4. Emergency telephone number

Country/Area	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH	0344 892 0111	Only for healthcare professionals

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Oxidising Liquids, Category 2 H272
Corrosive to metals, Category 1 H290
Acute toxicity (oral), Category 4 H302
Acute toxicity (inhalation:dust,mist) Category 4 H332
Skin corrosion/irritation, Category 1, Sub-Category 1B H314
Serious eye damage/eye irritation, Category 1 H318
Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation H335

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Hazardous to the aquatic environment – Chronic Hazard, H410
Category 1

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP)



CLP Signal word

: Danger

Contains

: peracetic acid; Hydrogen peroxide

Hazard statements (CLP)

: H272 - May intensify fire; oxidiser.
H290 - May be corrosive to metals.
H302+H332 - Harmful if swallowed 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 (CLP)

: 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 vapours, Mist, Spray.
P280 - Wear protective gloves, protective clothing, eye protection, face protection.
P284 - Wear respiratory protection.
P303+P361+P353+P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor.
P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
P403+P235 - Store in a well-ventilated place. Keep cool.

EUH-statements

: EUH071 - Corrosive to the respiratory tract.

2.3. Other hazards

Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hydrogen peroxide substance with national workplace exposure limit(s) (BE, BG, CZ, DK, EE, ES, FI, FR, GB, GR, HR, IE, LT, PL, PT, SE, SK, IS, NO, CH)	CAS-no: 7722-84-1 Einecs nr: 231-765-0 EG annex nr: 008-003-00-9 REACH-no: 01-2119485845-22	10 – 30	Ox. Liq. 1, H271 Acute Tox. 4 (Oral), H302 (ATE=431 mg/kg bodyweight) Acute Tox. 4 (Inhalation), H332 (ATE=1.5 mg/l/4h) Acute Tox. 4 (Inhalation:dust,mist), H332 (ATE=1.5 mg/l/4h) Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Chronic 3, H412
Acetic acid substance with national workplace exposure limit(s) (BE, BG, CZ, DE, DK, EE, ES, FI, FR, GB, GI, GR, HR, HU, IE, LT, LU, LV, MT, PL, PT, RO, SE, SI, SK, NO, CH, TR)	CAS-no: 64-19-7 Einecs nr: 200-580-7 EG annex nr: 607-002-00-6 REACH-no: 01-2119475328-30	5 – 10	Flam. Liq. 3, H226 Skin Corr. 1A, H314

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
peracetic acid substance with national workplace exposure limit(s) (BE, CZ, FI, IE, PL, PT, CH)	CAS-no: 79-21-0 Einecs nr: 201-186-8 EG annex nr: 607-094-00-8 REACH-no: 01-2119531330-56	3 – 5	Flam. Liq. 3, H226 Org. Perox. D, H242 Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Acute Tox. 4 (Dermal), H312 (ATE=1100 mg/kg bodyweight) Acute Tox. 4 (Inhalation), H332 (ATE=1.5 mg/l/4h) Skin Corr. 1A, H314 STOT SE 3, H335 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=10)

Specific concentration limits:

Name	Product identifier	Specific concentration limits (%)
Hydrogen peroxide	CAS-no: 7722-84-1 Einecs nr: 231-765-0 EG annex nr: 008-003-00-9 REACH-no: 01-2119485845-22	(5 ≤ C < 8) Eye Irrit. 2, H319 (8 ≤ C < 50) Eye Dam. 1, H318 (35 ≤ C < 100) STOT SE 3, H335 (35 ≤ C < 50) Skin Irrit. 2, H315 (50 ≤ C < 70) Skin Corr. 1B, H314 (50 ≤ C < 70) Ox. Liq. 2, H272 (63 ≤ C < 100) Aquatic Chronic 3, H412 (70 ≤ C < 100) Skin Corr. 1A, H314 (70 ≤ C < 100) Ox. Liq. 1, H271
Acetic acid	CAS-no: 64-19-7 Einecs nr: 200-580-7 EG annex nr: 607-002-00-6 REACH-no: 01-2119475328-30	(10 ≤ C < 25) Eye Irrit. 2, H319 (10 ≤ C < 25) Skin Irrit. 2, H315 (25 ≤ C < 90) Skin Corr. 1B, H314 (90 ≤ C ≤ 100) Skin Corr. 1A, H314
peracetic acid	CAS-no: 79-21-0 Einecs nr: 201-186-8 EG annex nr: 607-094-00-8 REACH-no: 01-2119531330-56	(1 ≤ C ≤ 100) STOT SE 3, H335

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice	: In all cases of doubt, or when symptoms persist, seek medical attention.
Inhalation	: Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary.
Skin contact	: Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER/doctor.
Eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
Ingestion	: Rinse mouth out with water. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

4.2. Most important symptoms and effects, both acute and delayed

Acute effects inhalation	: Inhalation may cause irritation (cough, short breathing, difficulty in breathing).
Acute effects skin	: Burns. irritation (itching, redness, blistering).
Acute effects eyes	: Corrosive to eyes. redness, itching, tears.
Acute effects oral route	: Harmful if swallowed. Burns to the gastric/intestinal mucosa. May cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : water in large amounts.

5.2. Special hazards arising from the substance or mixture

Fire hazard : May cause fire or explosion; strong oxidiser.

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Explosion hazard : Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Evacuate area.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

Protective equipment : Wear recommended personal protective equipment.

6.2. Environmental precautions

Avoid release to the environment. Prevent liquid from entering sewers, watercourses, underground or low areas. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Do not absorb in sawdust, paper, cloth or other combustible absorbents. Clean contaminated surfaces with an excess of water.

6.4. Reference to other sections

See Section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : May be corrosive to metals.

Precautions for safe handling : Use only outdoors or in a well-ventilated area. Never return unused material to original container. Handle in accordance with good industrial hygiene and safety procedures. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep away from ignition sources. Store in a well-ventilated place. Keep cool. Store in original container.

Incompatible products : Strong bases. Strong acids.

Storage temperature : > 0 – < 35 °C

Material(s) to avoid : metals. Organic materials. Bases.

Packaging materials : Keep only in the original container in a cool, well-ventilated place away from combustible materials.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

peracetic acid (79-21-0)	
Ireland - Occupational Exposure Limits	
Local name	Peracetic acid
OEL STEL	0.4 ppm IFV (Inhale Fraction and Vapour)
Remark	Advisory OELV (Advisory Occupational Exposure Limit Values)
Regulatory reference	Chemical Agents Code of Practice 2024
Acetic acid (64-19-7)	
Ireland - Occupational Exposure Limits	
Local name	Acetic acid
OEL TWA	25 mg/m ³
	10 ppm

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Acetic acid (64-19-7)	
OEL STEL	37 mg/m ³
	15 ppm
Remark	IOELV (Indicative Occupational Exposure Limit Values)
Regulatory reference	Chemical Agents Code of Practice 2024
United Kingdom - Occupational Exposure Limits	
Local name	Acetic acid
WEL TWA (OEL TWA)	25 mg/m ³
	10 ppm
WEL STEL (OEL STEL)	50 mg/m ³
	20 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

Hydrogen peroxide (7722-84-1)	
Ireland - Occupational Exposure Limits	
Local name	Hydrogen peroxide
OEL TWA	1.5 mg/m ³
	1 ppm
OEL STEL	3 mg/m ³
	2 ppm
Remark	Advisory OELV (Advisory Occupational Exposure Limit Values)
Regulatory reference	Chemical Agents Code of Practice 2024
United Kingdom - Occupational Exposure Limits	
Local name	Hydrogen peroxide
WEL TWA (OEL TWA)	1.4 mg/m ³
	1 ppm
WEL STEL (OEL STEL)	2.8 mg/m ³
	2 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

peracetic acid (79-21-0)	
DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	High health hazard.
Acute - systemic effects, inhalation	0.6 mg/m ³
Acute - local effects, dermal	0.12 % in mixture
Acute - local effects, inhalation	0.6 mg/m ³
Long-term - systemic effects, dermal	High health hazard.
Long-term - local effects, dermal	High health hazard.
Long-term - systemic effects, inhalation	0.6 mg/m ³
Long-term - local effects, inhalation	0.6 mg/m ³
DNEL/DMEL (General population)	
Acute - systemic effects, inhalation	0.6

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peracetic acid (79-21-0)	
Acute - local effects, inhalation	0.3 mg/m ³
Long-term - systemic effects, inhalation	0.6 mg/m ³
Long-term - local effects, inhalation	0.6 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	0.000224 mg/l
PNEC aqua (marine water)	Testing technically not feasible
PNEC aqua (intermittent, freshwater)	Testing technically not feasible
PNEC aqua (intermittent, marine water)	Testing technically not feasible
PNEC (Sediment)	
PNEC sediment (freshwater)	0.00018 mg/kg dwt
PNEC sediment (marine water)	Testing technically not feasible
PNEC (Soil)	
PNEC soil	0.32 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	Not potentially bioaccumulable
PNEC (STP)	
PNEC sewage treatment plant	0.051 mg/l
Acetic acid (64-19-7)	
DNEL/DMEL (Workers)	
Acute - local effects, inhalation	25 mg/m ³
Long-term - local effects, inhalation	25 mg/m ³
DNEL/DMEL (General population)	
Acute - local effects, inhalation	25 mg/m ³
Long-term - local effects, inhalation	25 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	3.058 mg/l
PNEC aqua (marine water)	0.3058 mg/l
PNEC aqua (intermittent, freshwater)	30.58 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	11.36 mg/kg dwt
PNEC sediment (marine water)	1.136 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.478 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	85 mg/l
Hydrogen peroxide (7722-84-1)	
DNEL/DMEL (Workers)	
Acute - local effects, inhalation	3 mg/m ³
Long-term - local effects, inhalation	1.4 mg/m ³
DNEL/DMEL (General population)	
Acute - local effects, inhalation	1.93 mg/m ³
Long-term - local effects, inhalation	0.21 mg/m ³

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Hydrogen peroxide (7722-84-1)	
PNEC (Water)	
PNEC aqua (freshwater)	0.0126 mg/l
PNEC aqua (marine water)	0.0126 mg/l
PNEC aqua (intermittent, freshwater)	0.0138 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.047 mg/kg dwt
PNEC sediment (marine water)	0.047 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.0023 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	4.66 mg/l

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No additional information available

8.2.2. Personal protection equipment

Personal protective equipment:

ISO 374-1. ISO 16321-1. EN 13034. ISO 13688. EN 14387.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Safety glasses with side shields (EN 166)

Eye protection			
Type	Field of application	Characteristics	Standard
			EN 166

8.2.2.2. Skin protection

Protective equipment:

Wear suitable protective clothing minimum (EN 13034) Type 6 equipment. Long sleeved protective clothing

Protective equipment	
Type	Standard
	EN 13034

Hand protection:

Chemical resistant PVC gloves (to European standard EN 374 or equivalent)

Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
	Nitrile rubber (NBR)	6 (> 480 minutes)	0,4		EN ISO 374-1

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Other skin protection Materials for protective clothing		
Condition	Material	Standard
		EN 13034

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation wear suitable respiratory equipment. Extra personal protection: A/P2 filter respirator for organic vapour and harmful dust

Respiratory protection			
Device	Filter type	Condition	Standard
	EN 14387		EN 140

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Colourless.
Physical state/form	: Liquid.
Odour	: acrid and pungent.
Odour threshold	: Not available
Melting point/range	: Not determined as it is not relevant for the characterization of the product
Freezing point	: Not determined as it is not relevant for the characterization of the product
Boiling point/Boiling range	: ≥ 100 °C
Flammability	: Non flammable.
Explosive properties	: Heating may cause a fire.
Lower explosion limit	: Constituents do not contain chemical groups associated with explosivity
Upper explosion limit	: Constituents do not contain chemical groups associated with explosivity
Flash point	: > 96 °C
Autoignition temperature	: Determination of the auto-ignition temperature is only relevant for pyrophoric liquids, however the mixture is not a pyrophoric liquid so the test is not required.
Decomposition temperature	: Only applies to self-reactive substances and mixtures, organic peroxides, and other substances and mixtures that may decompose.
pH	: 0.5
pH solution concentration	: 100
Viscosity, kinematic	: 1.044 mm ² /s at 20 °C
Viscosity, dynamic	: < 30 mPa·s
Solubility	: Water: Soluble
Partition coefficient n-octanol/water (Log Kow)	: Does not apply to inorganic and ionic liquids and does not generally apply to mixtures.
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: 1.1 kg/l
Relative density	: 1.115
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

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SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable in use and storage conditions as recommended in item 7.

10.3. Possibility of hazardous reactions

Contact with alkaline products gives exothermic reaction. Heating may cause a fire or explosion.

10.4. Conditions to avoid

Heating. Direct sunlight.

10.5. Incompatible materials

metals. Organic materials. Bases.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

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

Acute toxicity (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified.
Acute toxicity (inhalation)	: Inhalation:dust,mist: Harmful if inhaled.
Additional information	: Irritating to the respiratory system, may cause throat pain and cough May perforate the oesophagus or the digestive tract Harmful in contact with skin. Skin corrosion/irritation irritation of mucous membranes

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ATE CLP (oral)	1015.232 mg/kg
ATE CLP (dust,mist)	1.5 mg/l
peracetic acid (79-21-0)	
LD50 oral	85 mg/kg bodyweight
LD50 dermal rabbit	56.1 mg/kg bodyweight
LC50 Inhalation - Rat (Dust/Mist)	1.5 mg/l/4h
LC50 Inhalation - Rat (Vapours)	11 mg/l/4h
Acetic acid (64-19-7)	
LD50 oral	3310 mg/kg bodyweight
LC50 Inhalation - Rat (Vapours)	> 40000 mg/l/4h
Hydrogen peroxide (7722-84-1)	
LD50 oral rat	431 mg/kg
LD50 dermal rabbit	6440 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	1.5 mg/l/4h
LC50 Inhalation - Rat (Vapours)	11 mg/l/4h
Skin corrosion/irritation	: Causes severe skin burns. pH: 0.5
peracetic acid (79-21-0)	
pH	0.5
Acetic acid (64-19-7)	
pH	2.5
Serious eye damage/irritation	: Causes serious eye damage. pH: 0.5
peracetic acid (79-21-0)	
pH	0.5

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Acetic acid (64-19-7)	
pH	2.5
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Hydrogen peroxide (7722-84-1)	
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-single exposure	: May cause respiratory irritation.
peracetic acid (79-21-0)	
STOT-single exposure	May cause respiratory irritation.
Hydrogen peroxide (7722-84-1)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Hydrogen peroxide (7722-84-1)	
NOAEC (inhalation, rat, vapour, 90 days)	7 mg/l
Aspiration hazard	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Mida CHRIOX 5	
Viscosity, kinematic	1.044 mm ² /s at 20 °C
peracetic acid (79-21-0)	
Viscosity, kinematic	1.5 mm ² /s (20°C)
11.2. Information on other hazards	
No additional information available	
SECTION 12: Ecological information	
12.1. Toxicity	
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Very toxic to aquatic life with long lasting effects.
peracetic acid (79-21-0)	
LC50 - Fish [1]	1.1 mg/l
EC50 - Crustacea [1]	0.73 mg/l
ErC50 algae	0.05 mg/l (Selenastrum capricornutum)
NOEC (chronic)	0.0121 mg/l
NOEC chronic algae	(Selenastrum capricornutum)
Acetic acid (64-19-7)	
LC50 - Fish [1]	> 1000 mg/l
EC50 - Crustacea [1]	> 300 mg/l
EC50 - Other aquatic organisms [1]	> 1000 mg/l waterflea
ErC50 algae	> 300 mg/l
Hydrogen peroxide (7722-84-1)	
LC50 - Fish [1]	16.4 mg/l
EC50 - Crustacea [1]	2.4 mg/l
EC50 72h - Algae [1]	2.62 mg/l

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Hydrogen peroxide (7722-84-1)	
ErC50 algae	1.38 mg/l
NOEC chronic crustacea	0.63 mg/l

12.2. Persistence and degradability

Mida CHRIOX 5	
Persistence and degradability	Rapidly degradable

peracetic acid (79-21-0)	
Persistence and degradability	Biodegradable, OECD 301E method (Ready biodegradability: Modified OECD Screening Test).

Acetic acid (64-19-7)	
Persistence and degradability	Readily biodegradable.

Hydrogen peroxide (7722-84-1)	
Persistence and degradability	Biodegradable.

12.3. Bioaccumulative potential

Mida CHRIOX 5	
Partition coefficient n-octanol/water (Log Kow)	Does not apply to inorganic and ionic liquids and does not generally apply to mixtures.

peracetic acid (79-21-0)	
Bioaccumulative potential	Not established.

Acetic acid (64-19-7)	
Log Pow	-0.2
Bioaccumulative potential	No bioaccumulation.

Hydrogen peroxide (7722-84-1)	
Log Pow	-1.6
Bioaccumulative potential	No bioaccumulation.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste / unused products : Collect all waste in suitable and labelled containers and dispose according to local legislation.

European List of Waste (LoW, EC 2000/532) : 20 01 14* - acids

SECTION 14: Transport information




In accordance with ADR / IMDG / IATA

ADR	IMDG	IATA
14.1. UN number or ID number		
UN 3149	UN 3149	UN 3149
14.2. UN proper shipping name		
HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE STABILIZED	HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE STABILIZED	Hydrogen peroxide and peroxyacetic acid mixture stabilized

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ADR	IMDG	IATA
Transport document description		
UN 3149 HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE STABILIZED, 5.1 (8), II, (E), ENVIRONMENTALLY HAZARDOUS	UN 3149 HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE STABILIZED, 5.1 (8), II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS	UN 3149 Hydrogen peroxide and peroxyacetic acid mixture stabilized, 5.1 (8), II, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)		
5.1 (8)	5.1 (8)	5.1 (8)
		
14.4. Packing group		
II	II	II
14.5. Environmental hazards		
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes
No supplementary information available		

14.6. Special precautions for user

Overland transport

Classification code (ADR)	: OC1
Special provisions (ADR)	: 196, 553
Limited quantities (ADR)	: 1I
Packing instructions (ADR)	: P504, IBC02
Special packing provisions (ADR)	: PP10, B5
Mixed packing provisions (ADR)	: MP15
Portable tank and bulk container instructions (ADR)	: T7
Portable tank and bulk container special provisions (ADR)	: TP2, TP6, TP24
Tank code (ADR)	: L4BV(+)
Tank special provisions (ADR)	: TU3, TC2, TE8, TE11, TT1
Vehicle for tank carriage	: AT
Transport category (ADR)	: 2
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV24
Hazard identification number (Kemler No.)	: 58
Orange plates	: 
Tunnel code	: E
EAC code	: 2P

Transport by sea

Special provisions (IMDG)	: 196
Limited quantities (IMDG)	: 1 L
Packing instructions (IMDG)	: P504
Special packing provisions (IMDG)	: PP10
IBC packing instructions (IMDG)	: IBC02
IBC special provisions (IMDG)	: B5

Air transport

PCA Limited quantities (IATA)	: Y540
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PCA limited quantity max net quantity (IATA)	: 0.5L
PCA packing instructions (IATA)	: 550
PCA max net quantity (IATA)	: 1L
CAO packing instructions (IATA)	: 554
CAO max net quantity (IATA)	: 5L
Special provisions (IATA)	: A96

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

Explosives Precursors Regulation (2019/1148)

Contains substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

ANNEX I RESTRICTED EXPLOSIVES PRECURSORS

List of substances which are not to be made available to, or introduced, possessed or used by, members of the general public, whether on their own or in mixtures or substances that include those substances, unless the concentration is equal to or lower than the limit values set out in column 2, and for which suspicious transactions and significant disappearances and thefts are to be reported within 24 hours.

Name	CAS-No.	Limit value	Upper limit value for licensing under Article 5(3)	Combined Nomenclature (CN) code for a separate chemically defined compound meeting the requirements of Note 1 to Chapter 28 or 29 of the CN, respectively	Combined Nomenclature code for mixture without constituents which would determine classification under another CN code
Hydrogen peroxide	7722-84-1	12 % w/w	35% w/w	2847 00 00	ex 3824 99 96

Please see https://home-affairs.ec.europa.eu/policies/internal-security/counter-terrorism-and-radicalisation/protection/legislation-chemicals-used-home-made-explosives_en

Drug Precursors Regulation (273/2004)

Contains substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

peracetic acid

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SECTION 16: Other information

Indication of changes			
Section	Changed item	Change	Comments
	Date first issue	Modified	
	Supersedes	Modified	
	Review date	Modified	
7.2	Material(s) to avoid	Modified	
7.2	Storage temperature	Modified	
10.4	Conditions and products to avoid	Modified	
10.5	Material(s) to avoid	Modified	

Abbreviations and acronyms:	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
ErC50 (algae)	ErC50 (algae)
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
SDS	Safety Data Sheet
STP	Sewage treatment plant
vPvB	Very Persistent and Very Bioaccumulative

Other information

: It is recommended to pass the information from this safety data sheet in an appropriate form to the users. The information is currently to the best of our knowledge and believed to be accurate and reliable. This information relates to the specifically named product and may not be valid in combination with other products.
This safety data sheet is in compliance with 1907/2006/EEC. It is the responsibility of the user to take all necessary measures to meet local required laws and regulations. The producer is not responsible for any damage and loss due to the use of information mentioned in this safety data sheet.

Full text of H- and EUH-statements:	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4

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Full text of H- and EUH-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
EUH071	Corrosive to the respiratory tract.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
H226	Flammable liquid and vapour.
H242	Heating may cause a fire.
H271	May cause fire or explosion; strong oxidiser.
H272	May intensify fire; oxidiser.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
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.
Org. Perox. D	Organic Peroxides, Type D
Ox. Liq. 1	Oxidising Liquids, Category 1
Ox. Liq. 2	Oxidising Liquids, Category 2
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Ox. Liq. 2	H272	Expert judgement
Met. Corr. 1	H290	Calculation method
Acute Tox. 4 (Oral)	H302	Calculation method
Acute Tox. 4 (Inhalation:dust,mist)	H332	Expert judgement
Skin Corr. 1B	H314	Expert judgement
Eye Dam. 1	H318	Expert judgement
STOT SE 3	H335	Calculation method
Aquatic Chronic 1	H410	Expert judgement

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.