Mida CHRIOX 5

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Review date: 7/3/2024 Supersedes version of: 2/23/2024 Version: 19.3

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

1.1. Product identifier

Product form	: Mixture
Product name	: Mida CHRIOX 5
UFI	: 3E2K-SKTY-G10S-4CU7
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

Relevant identified uses

Main use category	: Industrial use,Professional use
Use of the substance/mixture	: Biocide – PT2, PT4
Use of the substance/mixture	: Stabilised mixture of peracetic acid, hydrogen peroxide, acetic acid and water
Function or use category	: Disinfectant

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 s.r.o.
Vítovská 453/7
CZ 742 35 Odry, Czech Republic
Czech Republic
T +420 556 731 111
legislativa@christeyns.com, www.christeyns.com

1.4. Emergency telephone number

Země	Organizace/společnost	Adresa	Telefonní číslo pro naléhavé situace	Komentář
Česká republika	Toxikologické informační středisko Klinika pracovního lékařství VFN a 1. LF UK	Na Bojišti 1 120 00 Praha 2	+420 224 919 293 +420 224 915 402	a jen při poruše +420 224 919 293 +420 224 915 402 tel 725 103 658 (jinak na tomto telefonu nemusí být toxikolog!) Dotazy na AKUTNÍ INTOXIKACE lidí a zvířat se řeší výhradně na přímých telefonních linkách TIS po 24 hod denně

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	H314
Serious eye damage/eye irritation, Category 1	H318
Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	H335
Hazardous to the aquatic environment – Acute Hazard, Category 1	H400
Hazardous to the aquatic environment – Chronic Hazard, Category 1	H410

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) :

GHS03 GHS05 GHS07 GHS09

Signal word (CLP) : Danger

Contains : peracetic acid; Hydrogen peroxide; acetic acid

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/sparks/open flames/hot surfaces. – No smoking.
P234 - Keep only in original container.
P260 - Do not breathe vapours, mist, spray.
P280 - Wear eye protection, face protection, protective clothing, protective gloves.
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/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/physician.
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 ≥ 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

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hydrogen peroxide substance with national workplace exposure limit(s) (AT, 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 EC-No.: 231-765-0 EC Index-No.: 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 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) (AT, BE, BG, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GI, GR, HR, HU, IE, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK, AL, IS, NO, MK, RS, CH, TR); substance with a Community workplace exposure limit	CAS-no: 64-19-7 EC-No.: 200-580-7 EC Index-No.: 607-002-00-6 REACH-no: 01-2119475328-30	5 – 10	Flam. Liq. 3, H226 Skin Corr. 1A, H314
peracetic acid substance with national workplace exposure limit(s) (BE, CZ, FI, IE, PL, PT, CH)	CAS-no: 79-21-0 EC-No.: 201-186-8 EC Index-No.: 607-094-00-8 REACH-no: 01-2119531330-56	3 – 5	Org. Perox. D, H242 Acute Tox. 2 (Inhalation:dust,mist), H330 (ATE=0.2 mg/l) Acute Tox. 2 (Dermal), H310 (ATE=60 mg/kg bodyweight) Acute Tox. 3 (Oral), H301 (ATE=80 mg/kg bodyweight) Skin Corr. 1A, H314 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=100) EUH071

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
sulphuric acid substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DE, EE, ES, FI, FR, GB, GI, GR, HU, IT, LT, LU, MT, NL, PT, RO, SE, SK, IS, NO, CH); substance with a Community workplace exposure limit	CAS-no: 7664-93-9 EC-No.: 231-639-5 EC Index-No.: 016-020-00-8 REACH-no: 01-2119458838-20	0.1 – 1	Skin Corr. 1A, H314

Specific concentration limits:		
Name	**Product identifier**	**Specific concentration limits (%)**
Hydrogen peroxide	CAS-no: 7722-84-1 EC-No.: 231-765-0 EC Index-No.: 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 EC-No.: 200-580-7 EC Index-No.: 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 EC-No.: 201-186-8 EC Index-No.: 607-094-00-8 REACH-no: 01-2119531330-56	(1 ≤ C ≤ 100) STOT SE 3; H335
sulphuric acid	CAS-no: 7664-93-9 EC-No.: 231-639-5 EC Index-No.: 016-020-00-8 REACH-no: 01-2119458838-20	(5 ≤ C < 15) Skin Irrit. 2; H315 (5 ≤ C < 15) Eye Irrit. 2; H319 (15 ≤ C ≤ 100) Skin Corr. 1A; H314

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice : Seek medical attention immediately. Only qualified personnel equipped with suitable protective equipment may intervene.

Inhalation : Take victim to fresh air, in a quiet place and if necessary take medical advice. Give oxygen or artificial respiration as needed.

Skin contact : Immediately remove contaminated clothing or footwear. Wash immediately with plenty of water.

Eye contact : Immediately rinse with water for a prolonged period while holding the eyelids wide open. Immediately call a POISON CENTER/doctor.

Ingestion : Rinse mouth out with water. Give 1-2 glasses of water to drink. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

Self protection of the first-aider : Gloves. Protective clothing. Safety glasses.

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 : Burns of the upper digestive and respiratory tracts. May perforate the oesophagus or the digestive tract.

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

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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 intensify fire; oxidiser.

Explosion hazard : On heating, there is a risk of bursting due to internal pressure build-up. Cool down the containers exposed to heat with a water spray.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers.

Protection during firefighting : Use self-contained breathing apparatus and chemically protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Evacuate area.

For non-emergency personnel

Protective equipment : Concerning personal protective equipment to use, see section 8.

Emergency procedures : Evacuate unnecessary personnel.

For emergency responders

Protective equipment : Wear recommended personal protective equipment. Corrosionproof suit. Protective gloves. Safety glasses. Face shield.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Avoid release to the environment.

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

Concerning personal protective equipment to use, 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 : Never return unused material to original container. Use only outdoors or in a well-ventilated area. Wear personal protective equipment. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Hygiene measures : Do not eat, drink or smoke when using this product. Remove contaminated clothes. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in original container. Store tightly closed in a dry and cool place.

Storage temperature : > 0 – < 35 °C

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

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure and biological limit values

peracetic acid (79-21-0)	
Czech Republic - Occupational Exposure Limits	
Local name	Kyselina peroxyoctová
PEL (OEL TWA)	0.6 mg/m³
	0.19 ppm
NPK-P (OEL C)	1.2 mg/m³
	0.38 ppm
Remark	I - dráždí sliznice (oči, dýchací cesty), resp. kůži.
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 20/2025 Sb.)

sulphuric acid (7664-93-9)	
Czech Republic - Occupational Exposure Limits	
Local name	Kyselina sírová
PEL (OEL TWA)	1 mg/m³ (jako SO3) 0.05 mg/m³ (mlha koncentrované kyseliny)
NPK-P (OEL C)	2 mg/m³ (jako SO3)
Remark	I - dráždí sliznice (oči, dýchací cesty), resp. kůži.
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 20/2025 Sb.)

Hydrogen peroxide (7722-84-1)	
Czech Republic - Occupational Exposure Limits	
Local name	Peroxid vodíku
PEL (OEL TWA)	1 mg/m³
	0.7 ppm
NPK-P (OEL C)	2 mg/m³
	1.4 ppm
Remark	I - dráždí sliznice (oči, dýchací cesty), resp. kůži.
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 20/2025 Sb.)

acetic acid (64-19-7)	
Czech Republic - Occupational Exposure Limits	
Local name	Kyselina octová (Kyselina ethanová)
PEL (OEL TWA)	25 mg/m³
	10 ppm
NPK-P (OEL C)	50 mg/m³
	20 ppm
Remark	I - dráždí sliznice (oči, dýchací cesty), resp. kůži.
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 20/2025 Sb.)

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/m³
Acute - local effects, dermal	0.12 % in mixture
Acute - local effects, inhalation	0.6 mg/m³
Long-term - systemic effects, dermal	High health hazard.
Long-term - local effects, dermal	High health hazard.
Long-term - systemic effects, inhalation	0.6 mg/m³
Long-term - local effects, inhalation	0.6 mg/m³
DNEL/DMEL (General population)	
Acute - systemic effects, inhalation	0.6
Acute - local effects, inhalation	0.3 mg/m³
Long-term - systemic effects, inhalation	0.6 mg/m³
Long-term - local effects, inhalation	0.6 mg/m³
PNEC (Water)	
PNEC aqua (freshwater)	0.000224 mg/l

peracetic acid (79-21-0)	
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

Hydrogen peroxide (7722-84-1)	
DNEL/DMEL (Workers)	
Acute - local effects, inhalation	3 mg/m³
Long-term - local effects, inhalation	1.4 mg/m³
DNEL/DMEL (General population)	
Acute - local effects, inhalation	1.93 mg/m³
Long-term - local effects, inhalation	0.21 mg/m³
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

acetic acid (64-19-7)	
DNEL/DMEL (Workers)	
Acute - local effects, inhalation	25 mg/m³
Long-term - local effects, inhalation	25 mg/m³
DNEL/DMEL (General population)	
Acute - local effects, inhalation	25 mg/m³
Long-term - local effects, inhalation	25 mg/m³
PNEC (Water)	
PNEC aqua (freshwater)	3058 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

acetic acid (64-19-7)	
PNEC sediment (marine water)	1136 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.47 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	85 mg/l

8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Personal protective equipment symbol(s):

Eye and face protection

Eye protection:

Safety glasses with side shields. ISO 16321-1. Face shield

Eye protection			
Type	**Field of application**	**Characteristics**	**Standard**
Safety glasses		With side shields	EN 166

Skin protection

Protective equipment:

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

Protective equipment	
Type	**Standard**
	EN 13034

Hand protection:

Chemical resistant gloves (according to European standard NF ISO 374-1 or equivalent)

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

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

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	: vinegar odour. 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	: Not flammable
Explosive properties	: Not explosive.
Oxidising properties	: Yes.
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.
SADT	: ≥ 60 °C (SADT for <=1000L and 26m3 non-insulated tank)
pH	: 2.83
pH solution concentration	: 100
Viscosity, kinematic	: 1.044 mm²/s at 20 °C
Viscosity, dynamic	: < 30 mPa·s
Solubility	: Water: Miscible
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

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts violently with (strong) reducers. alkalis.

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.

10.4. Conditions to avoid

Heating. Direct sunlight.

10.5. Incompatible materials

Steel. copper, bronze, brass. Aluminium. Zinc. Organic materials. Bases.

10.6. Hazardous decomposition products

Carbon oxydes (CO, CO2).

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

Mida CHRIOX 5	
ATE CLP (oral)	872.492 mg/kg bodyweight
ATE CLP (dermal)	1224.49 mg/kg bodyweight
ATE CLP (dust,mist)	2.51 mg/l/4h

sulphuric acid (7664-93-9)	
LD50 oral rat	2140 mg/kg bodyweight Animal: rat, 95% CL: 1540 - 2990
LD50 oral	2140 mg/kg bodyweight
LC50 Inhalation - Rat	0.375 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
LC50 Inhalation - Rat (Dust/Mist)	375 mg/l

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

acetic acid (64-19-7)	
LD50 oral rat	3310 mg/kg bodyweight Animal: rat, Remarks on results: other:
LD50 oral	4960 mg/kg bodyweight Animal: mouse, Remarks on results: other:

Skin corrosion/irritation : Causes severe skin burns.
pH: 2.83

peracetic acid (79-21-0)	
pH	0.5

acetic acid (64-19-7)	
pH	2.4 Source: ECHA

Serious eye damage/irritation : Causes serious eye damage.
pH: 2.83

peracetic acid (79-21-0)	
pH	0.5

acetic acid (64-19-7)	
pH	2.4 Source: ECHA

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.

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

acetic acid (64-19-7)	
NOAEL (oral, rat, 90 days)	290 mg/kg bodyweight Animal: rat, Animal sex: male

Aspiration hazard : Not classified

Additional information : Based on available data, the classification criteria are not met

Mida CHRIOX 5	
Viscosity, kinematic	1.044 mm²/s at 20 °C

peracetic acid (79-21-0)	
Viscosity, kinematic	1.5 mm²/s (20°C)

acetic acid (64-19-7)	
Viscosity, kinematic	1015.385 mm²/s

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) : Very toxic to aquatic life.

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

sulphuric acid (7664-93-9)	
LC50 - Fish [1]	> 16 mg/l
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna
EC50 - Other aquatic organisms [1]	> 100 mg/l waterflea
EC50 - Other aquatic organisms [2]	> 100 mg/l
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
NOEC (chronic)	0.15 mg/l Test organisms (species): other:
NOEC chronic fish	0.31 mg/l Test organisms (species): Salvelinus fontinalis Duration: '213 d'

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
ErC50 algae	1.38 mg/l
NOEC chronic crustacea	0.63 mg/l

acetic acid (64-19-7)	
LC50 - Fish [1]	> 1000 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
LC50 - Fish [2]	> 300.82 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	> 1000 mg/l Test organisms (species): Daphnia magna
EC50 - Crustacea [2]	> 300.82 mg/l Test organisms (species): Daphnia magna
EC50 - Other aquatic organisms [1]	> 1000 mg/l waterflea
EC50 72h - Algae [1]	> 1000 mg/l Test organisms (species): Skeletonema costatum
EC50 72h - Algae [2]	> 300.82 mg/l Test organisms (species): Skeletonema costatum

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).
sulphuric acid (7664-93-9)	
Persistence and degradability	Rapidly degradable
Hydrogen peroxide (7722-84-1)	
Persistence and degradability	Biodegradable.
acetic acid (64-19-7)	
Persistence and degradability	Not rapidly degradable
Biodegradation	74 % 14 days

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)	
Partition coefficient n-octanol/water (Log Kow)	≈ -0.26 @ 20 °C
Bioaccumulative potential	Not established.
sulphuric acid (7664-93-9)	
Log Pow	-1
Hydrogen peroxide (7722-84-1)	
Bioaccumulative potential	No bioaccumulation.
acetic acid (64-19-7)	
Log Pow	-0.2

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

Mida CHRIOX 5	
Other information	Avoid release to the environment.
peracetic acid (79-21-0)	
Other 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.

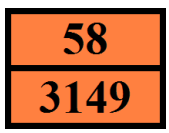
SECTION 14: Transport information
In accordance with ADR / IMDG / IATA

ADR	IMDG	IATA
14.1. UN number or ID number		
UN 3149	UN 3149	UN 3149

ADR	IMDG	IATA
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
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 EmS-No. (Fire): F-H EmS-No. (Spillage): S-Q	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)	: 1l
Excepted quantities (ADR)	: E2
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

Transport by sea

Special provisions (IMDG)	: 196
Limited quantities (IMDG)	: 1 L
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P504

Special packing provisions (IMDG)	: PP10
IBC packing instructions (IMDG)	: IBC02
IBC special provisions (IMDG)	: B5
Tank instructions (IMDG)	: T7
Tank special provisions (IMDG)	: TP2, TP6, TP24
Stowage category (IMDG)	: D
Properties and observations (IMDG)	: Colourless liquid. Carried as an aqueous solution. Slowly decomposes, evolving oxygen; the rate of decomposition increases on contact with most metals. In contact with combustible material may cause fire. Causes burns to skin, eyes and mucous membranes. Even though stabilized, these solutions may evolve oxygen.

Air transport

PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y540
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
ERG code (IATA)	: 5C

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

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 (2024/590)
Not listed on the Ozone Depletion list (Regulation EU 2024/590)
Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

Council Regulation (EC) for the control of dual-use items
Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

Explosives Precursors Regulation (EU 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
Sulphuric acid	7664-93-9	15 % w/w	40 % w/w	ex 2807 00 00	ex 3824 99 96

Drug Precursors Regulation (EC 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)

Name	CN designation	CAS-No.	CN code	Category, Subcategory	Threshold	Annex
Sulphuric acid		7664-93-9	2807 00 00	Category 3		Annex I

15.2. Chemical safety assessment

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

peracetic acid

SECTION 16: Other information

Indication of changes		
Section	**Changed item**	**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

Abbreviations and acronyms:	
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. 2 (Dermal)	Acute toxicity (dermal), Category 2
Acute Tox. 2 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 2
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
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
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
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
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.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.

Full text of H- and EUH-statements:	
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
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.
EUH071	Corrosive to the respiratory tract.

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. 1	H314	On basis of test data
Eye Dam. 1	H318	On basis of test data
STOT SE 3	H335	Calculation method
Aquatic Acute 1	H400	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.