



VELTEK ASSOCIATES, INC.

DEC-SPORE[®] 200 Plus (5% Sporidical Dilution)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878
Date of issue: 13/07/2015 Revision date: 16/09/2021 Supersedes: 29/10/2019 Version: 3.0

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

1.1. Product identifier

Product form : Mixture
Product name : DEC-SPORE[®] 200 Plus (5% Sporidical Dilution)
Product code : SDS VEL-120-EU

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Disinfectant and sporicide
Product for industrial use only

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Veltek Associates, Inc.
15 Lee Blvd
Malvern, PA 19355-1234 USA
Telephone: +1 610-644-8335 - Fax: +1 610-644-8336
E-mail: vai@sterile.com

Veltek Associates Inc., Branch Office Europe
PO Box 1062, 8200 BB Lelystad, Netherlands
Customer service (USA): +800 00888700

India distributor:
M/s. Shah Brothers
C-32, Shri Ram Indl. Estate
G.D. Ambekar Marg
Wadala, Mumbai- 400031 India
Telephone: +91 22-43560400

1.4. Emergency telephone number

Emergency number : For Spill/Exposure Emergency Response Service in Europe in English (and 23 other European languages) (24 hours): +44 (0)1235 239 670
For Middle East/Africa (24 hours): +44 (0)1235 239 671
For Hindi (24 hours): 000 800 100 7479

Country	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)	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Org. Perox. F H242
Acute Tox. 4 (Oral) H302
Acute Tox. 3 (Inhalation) H331
Skin Corr. 1A H314

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Eye Dam. 1	H318
STOT SE 3	H335
Aquatic Chronic 1	H410

Full text of hazard classes and H-statements : see section 16

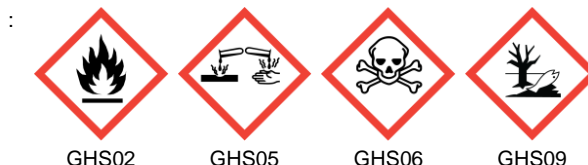
Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP)

: Danger

Contains

: Hydrogen peroxide; Acetic acid; Peracetic acid

Hazard statements (CLP)

: H242 - Heating may cause a fire.
H302 - Harmful if swallowed.
H314 - Causes severe skin burns and eye damage.
H331 - Toxic if inhaled.
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.
P280 - Wear eye protection, face protection, protective clothing, protective gloves.
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 doctor.

2.3. Other hazards

Other hazards which do not result in classification : Oxidising. Reacts with chlorinated materials (e.g. bleach) generating toxic chlorine gas.

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, 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 is 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

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hydrogen peroxide	CAS-No.: 7722-84-1 EC No.: 231-765-0 EC index No.: 008-003-00-9 REACH-no: 01-2119485845-22	1 - < 2.5	Ox. Liq. 1, H271 Acute Tox. 4 (Oral), H302 (ATE=693.7 mg/kg) Acute Tox. 4 (Inhalation), H332 (ATE=11 mg/l) Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Chronic 3, H412
Acetic acid	CAS-No.: 64-19-7 EC No.: 200-580-7 EC index No.: 607-002-00-6 REACH-no: 01-2119475328-30	0.1 - < 1	Flam. Liq. 3, H226 Skin Corr. 1A, H314 Eye Dam. 1, H318
Peracetic acid	CAS-No.: 79-21-0 EC No.: 201-186-8 EC index No.: 607-094-00-8	0.1 - < 1	Flam. Liq. 3, H226 Org. Perox. D, H242 Acute Tox. 3 (Oral), H301 (ATE=100 mg/kg) Acute Tox. 4 (Dermal), H312 (ATE=1147 mg/kg) Acute Tox. 3 (Inhalation), H331 (ATE=3 mg/l) Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 (M=10)

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

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Specific concentration limits		
Name	Product identifier	Specific concentration limits
Peracetic acid	CAS-No.: 79-21-0 EC No.: 201-186-8 EC index No.: 607-094-00-8	(0.025 ≤C < 0.25) Aquatic Chronic 3, H412 (0.25 ≤C < 2.5) Aquatic Chronic 2, H411 (1 ≤C < 100) STOT SE 3, H335 (1 ≤C < 3) Skin Irrit. 2, H315 (1 ≤C < 3) Eye Irrit. 2, H319 (2.5 ≤C < 100) Aquatic Chronic 1, H410 (3 ≤C < 100) Eye Dam. 1, H318 (3 ≤C < 5) Skin Corr. 1C, H314 (5 ≤C < 10) Skin Corr. 1B, H314 (10 ≤C < 100) Skin Corr. 1A, H314 (25 ≤C < 100) Aquatic Acute 1, H400

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

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, trained personnel should give oxygen. If not breathing, give artificial respiration. Obtain immediate medical attention.
First-aid measures after skin contact	: Take off immediately all contaminated clothing. Rinse skin with water/shower. Obtain immediate medical attention.
First-aid measures after eye contact	: Rinse immediately with plenty of water (for at least 15 minutes). Ensure that folded skin of eyelids is thoroughly washed with water. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain immediate medical attention.
First-aid measures after ingestion	: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth. Obtain immediate medical attention.

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

Symptoms/effects after inhalation	: Toxic if inhaled. May cause irritation to the respiratory tract.
Symptoms/effects after skin contact	: Causes burns.
Symptoms/effects after eye contact	: Causes serious eye damage.
Symptoms/effects after ingestion	: Severe irritation or burns to the mouth, throat, oesophagus, and stomach. Harmful if swallowed.

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. Foam. Dry chemical. Carbon dioxide.
Unsuitable extinguishing media	: Do not use water jet.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Organic peroxides. Heating may cause a fire. Oxidising. May intensify fire.
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.
Reactivity in case of fire	: On combustion, forms: oxygen. Oxygen will accelerate burning of combustible materials.
Hazardous decomposition products in case of fire	: Acetic acid. Oxygen. Carbon dioxide. Carbon monoxide. Phosphorus oxides.

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5.3. Advice for firefighters

- Firefighting instructions : Keep upwind. Exercise caution when fighting any chemical fire. 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. Use water spray or fog for cooling exposed containers. Do not allow run-off from fire fighting to enter drains or water courses.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Use self-contained breathing apparatus when in close proximity to fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Emergency procedures : Remove all sources of ignition. Ventilate area. Do not breathe vapours. Do not get in eyes, on skin, or on clothing. Evacuate unnecessary personnel. Ensure clean-up is conducted by trained personnel only. Refer to protective measures in sections 7 and 8.

6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection. Use chemically protective clothing.
- Emergency procedures : Remove all sources of ignition. Ventilate area. Do not breathe vapours. Do not get in eyes, on skin, or on clothing.

6.2. Environmental precautions

Collect spillage. Avoid release to the environment. Do not allow to enter drains or water courses. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

- For containment : Stop leak, if possible without risk. Dam up the liquid spill. Do not allow to come in contact with incompatible materials.
- Methods for cleaning up : Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Store away from other materials. Combustible materials exposed to this product should be rinsed immediately with large amounts of water to ensure that all product is removed. Residual product which is allowed to dry on organic materials such as rags, cloths, paper, fabrics, cotton, leather, wood, or other combustibles may spontaneously ignite and result in a fire.

6.4. Reference to other sections

SECTION 8: Exposure controls/personal protection. SECTION 13: Disposal considerations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from clothing and other combustible materials. Provide adequate ventilation, including appropriate local extraction, to ensure that occupational exposure limits are not exceeded. Do not get in eyes, on skin, or on clothing. Do not breathe vapours.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. 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. Wash contaminated clothing before reuse. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Comply with applicable regulations.
- Storage conditions : Keep cool. Store at temperatures not exceeding 40 °C / 104 °F. Store in a well-ventilated place. Keep container closed when not in use. Keep only in original container. Protect from sunlight. Store locked up. Keep/Store away from clothing and other combustible materials. Risk of overpressure in insufficiently vented containers.

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Incompatible materials	: Combustible materials. Bases. Reducing agents. Metals. Metallic salts. Acetic anhydride. Chlorinated compounds.
Storage temperature	: -30 – 40 °C

7.3. Specific end use(s)

Disinfectant and sporicide. Product for industrial use only.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National occupational exposure and biological limit values

Hydrogen peroxide (7722-84-1)	
Ireland - Occupational Exposure Limits	
Local name	Hydrogen peroxide
OEL (8 hours ref) (mg/m ³)	1.5 mg/m ³
OEL TWA [2]	1 ppm
OEL (15 min ref) (mg/m ³)	3 mg/m ³
OEL STEL [ppm]	2 ppm
Regulatory reference	Chemical Agents Code of Practice 2020
United Kingdom - Occupational Exposure Limits	
Local name	Hydrogen peroxide
WEL TWA (mg/m ³)	1.4 mg/m ³
WEL TWA (ppm)	1 ppm
WEL STEL (mg/m ³)	2.8 mg/m ³
WEL STEL (ppm)	2 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
Acetic acid (64-19-7)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Acetic acid
IOELV TWA (mg/m ³)	25 mg/m ³
IOELV TWA (ppm)	10 ppm
IOELV STEL (mg/m ³)	50 mg/m ³
IOELV STEL (ppm)	20 ppm
Regulatory reference	COMMISSION DIRECTIVE (EU) 2017/164
Ireland - Occupational Exposure Limits	
Local name	Acetic acid
OEL (8 hours ref) (mg/m ³)	25 mg/m ³
OEL TWA [2]	10 ppm
OEL (15 min ref) (mg/m ³)	50 mg/m ³
OEL STEL [ppm]	20 ppm
Notes (IE)	IOELV (Indicative Occupational Exposure Limit Values)
Regulatory reference	Chemical Agents Code of Practice 2020

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Acetic acid (64-19-7)	
United Kingdom - Occupational Exposure Limits	
Local name	Acetic acid
WEL TWA (mg/m ³)	25 mg/m ³
WEL TWA (ppm)	10 ppm
WEL STEL (mg/m ³)	50 mg/m ³
WEL STEL (ppm)	20 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
Peracetic acid (79-21-0)	
Ireland - Occupational Exposure Limits	
Local name	Peracetic acid
OEL STEL [ppm]	0.4 ppm IFV (Inhale Fraction and Vapour)
Regulatory reference	Chemical Agents Code of Practice 2020

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

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Provide adequate ventilation, including appropriate local extraction, to ensure that occupational exposure limits are not exceeded. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

8.2.2. Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure.

8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or safety glasses. Standard EN 166 - Personal eye-protection.

8.2.2.2. Skin protection

Skin and body protection:

Use chemically protective clothing. Impervious footwear or cover is recommended based on product usage

Hand protection:

Wear chemically resistant protective gloves. Standard EN 374 - Protective gloves against chemicals. The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed. Gloves should be removed and replaced if there are any signs of degradation or breakthrough.

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

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8.2.2.4. Thermal hazards

Thermal hazard protection:

Not required for normal conditions of use.

8.2.3. Environmental exposure controls

Environmental exposure controls:

Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Refer to section 6.

Other information:

Handle in accordance with good industrial hygiene and safety procedures. 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.
Appearance	: Clear.
Odour	: Pungent.
Odour threshold	: Not available
Melting point	: 0 °C
Freezing point	: Not available
Boiling point	: 100 °C
Flammability	: Not flammable
Explosive properties	: Not explosive.
Oxidising properties	: Oxidising.
Explosive limits	: Not applicable
Lower explosive limit (LEL)	: Not available
Upper explosive limit (UEL)	: Not available
Flash point	: Not applicable, does not sustain combustion
Auto-ignition temperature	: Not available
Decomposition temperature	: 75 °C (SADT)
pH	: 2 – 3
Viscosity, kinematic	: Not available
Solubility	: Water: Miscible
Log Kow	: Not available
Vapour pressure	: Not available
Vapour pressure at 50 °C	: Not available
Density	: Not available
Relative density	: 1.004 (20 °C)(Water = 1)
Relative vapour density at 20 °C	: Not available
Particle size	: Not applicable
Particle size distribution	: Not applicable
Particle shape	: Not applicable
Particle aspect ratio	: Not applicable
Particle aggregation state	: Not applicable
Particle agglomeration state	: Not applicable
Particle specific surface area	: Not applicable
Particle dustiness	: 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

Additional information : This diluted product is compatible with stainless steel and aluminium surfaces. For other materials a smaller test area should be used to determine compatibility before use.

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SECTION 10: Stability and reactivity

10.1. Reactivity

Oxidising.

10.2. Chemical stability

Organic peroxides. Heating may cause a fire.

10.3. Possibility of hazardous reactions

Risk of explosion on reaction with acetic anhydride. Risk of self-accelerated thermal decomposition in contact with: Metals and metallic compounds. Bases. Reducing agents. Organic materials. Contamination may result in dangerous pressure increases - closed containers may rupture. Reacts with chlorinated materials (e.g. bleach) generating toxic chlorine gas.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep out of direct sunlight. Freezing.

10.5. Incompatible materials

Combustible materials. Bases. Reducing agents. Metals. Metallic salts. Chlorinated compounds. Acetic anhydride.

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. Phosphorus oxides. Acetic acid. On combustion, forms: oxygen. May intensify fire. Reacts with chlorinated materials (e.g. bleach) generating toxic chlorine gas.

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) : Toxic if inhaled.

Hydrogen peroxide (7722-84-1)	
LD50 oral, rat	693.7 mg/kg (female)(70% Aqueous solution), (OECD 401 method)
LD50 dermal, rabbit	> 2000 mg/kg bodyweight (35% Aqueous solution), (OECD 402 method)
LC50 inhalation, rat (mg/l)	> 170 mg/m ³ - 4 Hours (50% aerosol), (OECD 403 method)

Acetic acid (64-19-7)	
LD50 oral, rat	3310 mg/kg bodyweight (Read-across: Sodium acetate)

Peracetic acid (79-21-0)	
LD50 oral, rat	50 – 500 mg/kg bodyweight (35% Aqueous solution)(EPA OPP 81-1)
LD50 dermal, rabbit	1147 mg/kg bodyweight (5% Aqueous solution)(EPA OPP 81-2)
LC50 inhalation, rat (mg/l)	204 mg/m ³ air - 4 Hours (5% aerosol)(EPA OPP 81-3)

Skin corrosion/irritation : Causes severe skin burns.
pH: 2 – 3

Serious eye damage/irritation : Causes serious eye damage.
pH: 2 – 3

Respiratory or skin sensitisation : Not classified

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

Germ cell mutagenicity : Not classified

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

Carcinogenicity : Not classified

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

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Hydrogen peroxide (7722-84-1)

IARC group	3 - Not classifiable
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Reproductive toxicity : Not classified
Additional information : Based on available data, the classification criteria are not met

Acetic acid (64-19-7)

NOAEL (animal/female, F0/P)	74.3 mg/kg bodyweight/day - mouse (Maternal Toxicity) (EU method B.31)
NOAEL (animal/female, F1)	345 mg/kg bodyweight/day - male/female mouse (Developmental toxicity) (EU method B.31)

Peracetic acid (79-21-0)

NOAEL (animal/female, F0/P)	30.4 mg/kg bodyweight/day - rat (Maternal Toxicity) (OECD 414 method)
NOAEL (animal/male, F1)	30 mg/kg bodyweight/day - male/female rat (Developmental toxicity) (OECD 414 method)

STOT-single exposure : May cause respiratory irritation.

Hydrogen peroxide (7722-84-1)

STOT-single exposure	May cause respiratory irritation.
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Peracetic acid (79-21-0)

STOT-single exposure	May cause respiratory irritation.
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STOT-repeated exposure : Not classified
Additional information : Based on available data, the classification criteria are not met

Peracetic acid (79-21-0)

NOAEL (oral, rat, 90 days)	23.4 mg/kg bodyweight/day (5% Aqueous solution) TWA (Time Weighted Average) (OECD 408 method)
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Aspiration hazard : Not classified
Additional information : Based on available data, the classification criteria are not met

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : No additional information available

11.2.2. Other information

Potential adverse human health effects and symptoms : Causes severe skin burns and eye damage, Toxic if inhaled, Severe irritation or burns to the mouth, throat, oesophagus, and stomach, Harmful if swallowed, May cause respiratory irritation.

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.

Hydrogen peroxide (7722-84-1)

LC50 fish	16.4 mg/l - 96 Hours (Pimephales promelas)
EC50 Daphnia	2.4 mg/l - 48 Hours (Daphnia pulex)
EC50 72h - Algae [1]	1.38 mg/l - 72 Hours (Skeletonema costatum, Growth rate)
NOEC chronic crustacea	0.63 mg/l - 21 days (Daphnia magna, reproduction)
NOEC chronic algae	0.63 mg/l - 72 Hours (Skeletonema costatum, Growth rate)

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Acetic acid (64-19-7)	
LC50 fish	> 300.82 mg/l - 96 Hours (Oncorhynchus mykiss)(OECD 203 method)
EC50 Daphnia	> 300.82 mg/l - 48 Hours (Daphnia magna, Mobility)(OECD 202 method)
ErC50 algae	> 300.82 mg/l - 72 Hours (Skeletonema costatum, Mobility)
NOEC chronic algae	300.82 mg/l - 72 Hours (Skeletonema costatum, Mobility)

Peracetic acid (79-21-0)	
LC50 fish	0.53 mg/l - 96 Hours (Oncorhynchus mykiss)(5% Aqueous solution)(OECD 203 method)
LC50 fish 2	11 mg/l - 96 Hours (Pleuronectes platessa)(12% Aqueous solution)
EC50 Daphnia	0.73 mg/l - 48 Hours (Daphnia magna, Mobility)(OECD 202 method)
EC50 - Other aquatic organisms [1]	0.27 mg/l - 48 Hours (Mytilus edulis, Developmental toxicity)
ErC50 algae	0.16 mg/l - 72 Hours (Pseudokirchneriella subcapitata, Growth rate)
NOEC chronic fish	2.2 µg/L - 33 days (Danio rerio)(OECD 210 method)
NOEC chronic crustacea	0.012 mg/l - 21 days (Daphnia magna, immobilisation, reproduction)(OECD 211 method)
NOEC chronic algae	0.061 mg/l - 72 Hours (Pseudokirchneriella subcapitata, Growth rate)

12.2. Persistence and degradability

Hydrogen peroxide (7722-84-1)	
Persistence and degradability	Readily biodegradable.
Biodegradation	> 99 % - 30 minutes (OECD 209 method)

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

Peracetic acid (79-21-0)	
Persistence and degradability	Readily biodegradable.
Biodegradation	98 % - 28 days (OECD 301E method)

12.3. Bioaccumulative potential

Hydrogen peroxide (7722-84-1)	
Log Pow	-1.57 (20 °C)(calculated value)
Bioaccumulative potential	Low bioaccumulation potential.

Acetic acid (64-19-7)	
BCF - Fish [1]	3.16 (QSAR)
Log Pow	-0.17 (25 °C)

Peracetic acid (79-21-0)	
Log Pow	-0.26 (25 °C, pH 7)(QSAR)
Bioaccumulative potential	Low bioaccumulation potential.

12.4. Mobility in soil

DEC-SPORE [®] 200 Plus (5% Sporidical Dilution)	
Ecology - soil	Miscible with water.

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Hydrogen peroxide (7722-84-1)

Mobility in soil	Not expected to adsorb to soil
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Acetic acid (64-19-7)

Log K _{oc}	0.062 (20 °C)
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12.5. Results of PBT and vPvB assessment

DEC-SPORE[®] 200 Plus (5% Sporidical Dilution)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

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 disposal recommendations	: Do not discharge into drains or the environment. Dispose in a safe manner in accordance with local/national regulations. Dispose of this material and its container at hazardous or special waste collection point.
Additional information	: Handle empty containers with care. Empty containers should be taken for recycling, recovery or waste in accordance with local regulation.
Ecology - waste materials	: Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

14.1. UN number or ID number

UN-No. (ADR)	: Not regulated
UN-No. (IMDG)	: Not regulated
UN-No. (IATA)	: Not regulated

14.2. UN proper shipping name

Proper Shipping Name	: Not regulated
Proper Shipping Name (IMDG)	: Not regulated
Proper Shipping Name (IATA)	: Not regulated

14.3. Transport hazard class(es)

ADR
Transport hazard class(es) (ADR) : Not regulated

IMDG
Transport hazard class(es) (IMDG) : Not regulated

IATA
Transport hazard class(es) (IATA) : Not regulated

14.4. Packing group

Packing group : Not regulated

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Packing group (IMDG) : Not regulated
Packing group (IATA) : Not regulated

14.5. Environmental hazards

Dangerous for the environment : Yes
Marine pollutant : Yes
Other information : No supplementary information available

14.6. Special precautions for user

Special transport precautions : DO NOT TRANSPORT - This dilution of product is an on-site dilution in water by the user according to product label directions. It is not supplied nor transported in commerce at this dilution. This dilution is classified as dangerous for transport. Details of this transport classification have not been provided, as the diluted form of this product shall not be transported, See SDS DS200-0397-01-01-EU for hazards of undiluted product.

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

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

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3.	DEC-SPORE [®] 200 Plus (5% Sporidical Dilution) ; Hydrogen peroxide ; Acetic acid ; Peracetic acid	Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008
3(a)	DEC-SPORE [®] 200 Plus (5% Sporidical Dilution) ; Hydrogen peroxide ; Acetic acid ; Peracetic acid	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F
3(b)	DEC-SPORE [®] 200 Plus (5% Sporidical Dilution) ; Hydrogen peroxide ; Acetic acid ; Peracetic acid	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10
3(c)	DEC-SPORE [®] 200 Plus (5% Sporidical Dilution) ; Hydrogen peroxide ; Peracetic acid	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1

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EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
40.	Acetic acid ; Peracetic acid	Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes			
Section	Changed item	Change	Comments
1	Identification of the substance/mixture and of the company/undertaking	Modified	
2	Hazards identification	Modified	
3	Composition/information on ingredients	Modified	
4	First aid measures	Modified	
5	First aid measures	Modified	
6	Accidental release measures	Modified	
7	Handling and storage	Modified	
8	Exposure controls/personal protection	Modified	
9	Physical and chemical properties	Modified	
10	Stability and reactivity	Modified	
11	Toxicological information	Modified	
12.	Ecological information	Modified	
13	Disposal considerations	Modified	
14	Transport information	Modified	
15	Regulatory information	Modified	
16	Other information	Modified	

Abbreviations and acronyms	
	ADR (Accord européen relatif au transport international des marchandises Dangereuses par Route)
	ATE (Acute Toxicity Estimate)
	CAS (Chemical Abstracts Service) number

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Abbreviations and acronyms

	CLP (Classification, Labeling and Packaging)
	DNEL (Derived No Effect Level)
	EC (European Community)
	EC50 (Effective Concentration 50%)
	EN (European Norm)
	IARC (International Agency for Research on Cancer)
	IATA (International Air Transport Association)
	IMDG (International Maritime Dangerous Goods Code)
	IMO (International Maritime Organisation)
	LC50 (Lethal Concentration 50%)
	LD50 (Lethal Dose 50%)
	MAC (Maximal Allowed Concentration)
	OECD (Organisation for Economic Co-operation and Development)
	PBT (Persistent, Bioaccumulative and Toxic)
	PNEC (Predicted No Effect Concentration)
	REACH (Registration, Evaluation and Authorisation of Chemicals)
	SADT (Self-Accelerating Decomposition Temperature)
	STEL (Short Term Exposure Limit)
	TWA (Time Weighted Average)
	UNxxxx (Number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods)
	vPvB (very Persistent and very Bioaccumulative)

Data sources

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information

: Classification procedure according to Regulation (EC) No. 1272/2008 [CLP]: Dilution bridging principle. This document applies to the use dilution of this product after mixing according to label directions (for example, after mixing the concentrated material 1 part concentrate to 20 parts water according to label directions). For transport and hazards of the undiluted product concentrate before mixing, see SDS #VEL DS200-0397-01-01-EU.

Full text of H- and EUH-statements

Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
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 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1

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Full text of H- and EUH-statements	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Org. Perox. D	Organic Peroxides, Type D
Org. Perox. F	Organic Peroxides, Type F
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 Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C
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.
H301	Toxic if swallowed.
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.
H331	Toxic 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.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Safety Data Sheet (SDS), EU

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This SDS has been translated into the official language of the country/region in which the product is to be placed on the market. Where no official translation exists, the regulatory text is reported in English, as it appears in the relevant regulatory text.