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According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

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

1.1 Product identifier

Trade name : ZAL PERAX II

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

Use of the Substance/Mixture : Surface disinfectant
Cleaning in place chemical
for general surface disinfection
for food contact surface disinfection
Detergent

Recommended restrictions on use : For professional and industrial use only
Uses other than those identified are not recommended

Sector-specific worker exposure

AISE_SWED_PW_1_1
AISE_SWED_PW_8a_1
AISE_SWED_IS_8b_1
AISE_SWED_IS_13_3
AISE_SWED_IS_4_1
AISE_SWED_IS_7_2
AISE_SWED_PW_11_1
AISE_SWED_PW_13_2
AISE_SWED_PW_19_1
AISE_SWED_PW_4_1
AISE_SWED_IS_7_5

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1.3 Details of the supplier of the safety data sheet Diversey Europe Operations BV, De Corridor 4, 3621ZB Breukelen, The Netherlands Diversey Ltd - Weston Favell Centre, Northampton NN3 8PD United Kingdom E-mail address of person responsible for the SDS: HazardCommunication@solenis.com Product Information 01604 405311 customerservice.uk@solenis.com, Diversey.com	1.4 Emergency telephone Seek medical advice (show the label or safety data sheet where possible), For medical or environmental emergency only: call 0800 052 0185
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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Oxidizing liquids, Category 2	H272: May intensify fire; oxidizer.
Organic peroxides, Type G	
Corrosive to Metals, Category 1	H290: May be corrosive to metals.
Acute toxicity, Category 4	H302: Harmful if swallowed.
Acute toxicity, Category 4	H332: Harmful if inhaled.
Acute toxicity, Category 4	H312: Harmful in contact with skin.
Skin corrosion, Category 1	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Specific target organ toxicity - single exposure, Category 3, Respiratory system	H335: May cause respiratory irritation.
Short-term (acute) aquatic hazard, Category 1	H400: Very toxic to aquatic life.

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Long-term (chronic) aquatic hazard,
Category 1

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

2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms	:	   
Signal Word	:	Danger
Hazard Statements	:	H272 May intensify fire; oxidizer. H290 May be corrosive to metals. H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled. H314 Causes severe skin burns and eye damage. H335 May cause respiratory irritation. H410 Very toxic to aquatic life with long lasting effects.
Supplemental Hazard Statements	:	EUH071 Corrosive to the respiratory tract.
Precautionary Statements	:	Prevention:
		P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
		P220 Keep away from clothing and other combustible materials.
		P273 Avoid release to the environment.
		P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
		Response:
		P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
		P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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/ doctor.
		P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
		P391 Collect spillage.

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Hazardous ingredients which must be listed on the label:

hydrogen peroxide
acetic acid
peracetic acid
alkyl alcohol ethoxylate

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
hydrogen peroxide	7722-84-1 231-765-0	Ox. Liq. 1; H271 Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Corr. 1A; H314 Eye Dam. 1; H318 STOT SE 3; H335 (Respiratory system) Aquatic Chronic 3; H412 specific concentration limit Ox. Liq. 1; H271 >= 70 % Ox. Liq. 2; H272 50 - < 70 % Skin Corr. 1A; H314 >= 70 % Skin Corr. 1B; H314 50 - < 70 % Skin Irrit. 2; H315 35 - < 50 % Eye Dam. 1; H318 8 - < 50 % Eye Irrit. 2; H319 5 - < 8 % STOT SE 3; H335 >= 35 %	>= 20 - < 25
acetic acid	64-19-7 200-580-7	Flam. Liq. 3; H226 Skin Corr. 1A; H314	>= 10 - < 15

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		Eye Dam. 1; H318 specific concentration limit Skin Corr. 1A; H314 >= 90 % Skin Corr. 1B; H314 25 - < 90 % Skin Irrit. 2; H315 10 - < 25 % Eye Irrit. 2; H319 10 - < 25 %	
peracetic acid	79-21-0 201-186-8	Flam. Liq. 3; H226 Org. Perox. D; H242 Acute Tox. 3; H301 Acute Tox. 2; H330 Acute Tox. 2; H310 Skin Corr. 1A; H314 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 EUH071 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 100 specific concentration limit STOT SE 3; H335 >= 1 %	>= 5 - < 10
alkyl alcohol ethoxylate	68439-46-3	Acute Tox. 4; H302 Eye Dam. 1; H318	>= 2,5 - < 3

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice : Move out of dangerous area.
 Consult a physician.
 Show this material safety data sheet to the doctor in attendance.
 Do not leave the victim unattended.

If inhaled : Move to fresh air.

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Keep patient warm and at rest.
 If unconscious, place in recovery position and seek medical advice.
 If symptoms persist, call a physician.

- In case of skin contact : Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
 If skin irritation persists, call a physician.
 If on clothes, remove clothes.
 If on skin, rinse well with water.
 Wash contaminated clothing before re-use.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
 In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 Continue rinsing eyes during transport to hospital.
 Remove contact lenses.
 Protect unharmed eye.
 Keep eye wide open while rinsing.
 If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.
 Clean mouth with water and drink afterwards plenty of water.
 Take victim immediately to hospital.
 Get medical attention immediately.
 Do NOT induce vomiting.
 Rinse mouth with water.
 Do not give milk or alcoholic beverages.
 Never give anything by mouth to an unconscious person.
 If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

- Risks : Harmful if swallowed, in contact with skin or if inhaled.
 Causes serious eye damage.
 May cause respiratory irritation.
 Causes severe burns.
 Corrosive to the respiratory tract.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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Water spray
Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire fighting : Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.
Do not allow run-off from fire fighting to enter drains or water courses.
If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than air and may travel along the ground and be ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release.

5.3 Advice for firefighters

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.

Specific extinguishing methods : Product is compatible with standard fire-fighting agents.

Further information : Use a water spray to cool fully closed containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. For safety reasons in case of fire, cans should be stored separately in closed containments. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment. Ensure adequate ventilation. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Comply with all applicable federal, state, and local regulations.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.

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If the product contaminates rivers and lakes or drains inform respective authorities.
Should not reach sewage water or drainage ditch undiluted or unneutralised

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

For further information see Section 8 and Section 13 of the safety data sheet.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : To avoid spills during handling keep bottle on a metal tray.
Avoid formation of aerosol.
Provide sufficient air exchange and/or exhaust in work rooms.
Do not breathe vapors/dust.
Do not smoke.
When diluting, always add the product to water. Never add water to the product.
Container hazardous when empty.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
Smoking, eating and drinking should be prohibited in the application area.
For personal protection see section 8.
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Keep away from combustible material.

Hygiene measures : When using do not smoke. Wash hands before breaks and at the end of workday. When using do not eat or drink. Ensure that eyewash stations and safety showers are close to the workstation location.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Electrical installations / working materials must comply with the technological safety standards. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions.

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Advice on common storage : Do not store near acids.

Further information on storage stability : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
hydrogen peroxide	7722-84-1	TWA	1 ppm 1,4 mg/m ³	GB EH40
		STEL	2 ppm 2,8 mg/m ³	GB EH40
acetic acid	64-19-7	STEL	20 ppm 50 mg/m ³	GB EH40
		TWA	10 ppm 25 mg/m ³	GB EH40
		TWA	10 ppm 25 mg/m ³	2017/164/EU
Further information: Indicative				
		STEL	20 ppm 50 mg/m ³	2017/164/EU
Further information: Indicative				

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Routes of exposure	Potential health effects	Value
hydrogen peroxide	Workers	Inhalation	Acute local effects	3 mg/m ³
	Workers	Inhalation	Long-term local effects	1,4 mg/m ³
	Consumers	Inhalation	Acute local effects	1,93 mg/m ³
	Consumers	Inhalation	Long-term local effects	0,21 mg/m ³
	Consumers	Inhalation	Short-term exposure, Local effects	1,93 mg/kg bw/day
	Consumers	Inhalation	Long-term local effects	0,21 mg/kg bw/day
	Workers	Inhalation	Short-term exposure, Local effects	3 mg/kg bw/day
	Workers	Inhalation	Long-term local effects	1,4 mg/kg bw/day

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acetic acid	Consumers	Inhalation	Short-term exposure, Local effects	25 mg/kg bw/day
	Consumers	Inhalation	Long-term local effects	25 mg/kg bw/day
	Workers	Inhalation	Short-term exposure, Local effects	25 mg/kg bw/day
	Workers	Inhalation	Long-term local effects	25 mg/kg bw/day
peracetic acid	Consumers	Dermal	Short-term exposure, Local effects	0,12 %
	Workers	Dermal	Short-term exposure, Local effects	0,12 %
	Consumers	Inhalation	Short-term exposure, Local effects	0,3 mg/kg bw/day
	Consumers	Inhalation	Short-term exposure, Systemic effects	0,6 mg/kg bw/day
	Consumers	Inhalation	Long-term local effects	0,6 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0,6 mg/kg bw/day
	Workers	Inhalation	Short-term exposure, Local effects	0,6 mg/kg bw/day
	Workers	Inhalation	Short-term exposure, Systemic effects	0,6 mg/kg bw/day
	Workers	Inhalation	Long-term local effects	0,6 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	0,6 mg/kg bw/day
	Consumers	Oral	Short-term exposure, Systemic effects	1,25 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	1,25 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
hydrogen peroxide	Fresh water	0,0126 mg/l
	Sea water	0,0126 mg/l
	Intermittent use/release	0,0138 mg/l
	Sewage treatment plant	4,66 mg/l
	Fresh water sediment	0,047 mg/l
	Sea sediment	0,047 mg/l
	Soil	0,0023 mg/l
acetic acid	Fresh water	3,058 mg/l
	Sea water	0,3058 mg/l
	Intermittent use/release	30,58 mg/l
	Sewage treatment plant	85 mg/l
	Fresh water sediment	11,36 mg/l
	Sea sediment	1,136 mg/l
	Soil	0,47 mg/l
peracetic acid	Fresh water	0,000224 mg/l

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	Sea water	0,000005 mg/l
	Intermittent use/release	0,0016 mg/l
	Sewage treatment plant	0,051 mg/l
	Fresh water sediment	0,00018 mg/l
	Sea sediment	0,000015 mg/l
	Soil	0,32 mg/l

8.2 Exposure controls

The following information applies for the uses indicated in subsection 1.2 of the Safety Data Sheet. If available, please refer to the product information sheet for application and handling instructions. Normal use conditions are assumed for this section.

Recommended safety measures for handling the undiluted product:

Engineering measures

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Appropriate organisational controls: : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.
Should not reach sewage water or drainage ditch undiluted or unneutralised

REACH use scenarios considered for the undiluted product:

	SWED- Sector Specific Worker Exposure Description	LCS	PROC	Duration (min)	ERC
Automatic application in a closed system	AISE_SWED_P W_1_1	PW	PROC1	60 min	ERC8a
Manual transfer and dilution	AISE_SWED_P W_8a_1	PW	PROC8a	60 min	ERC8a
Automatic transfer and dilution	AISE_SWED_IS_ 8b_1	IS	PROC8b	60 min	ERC4

Personal protective equipment

Eye protection (EN ISO 16321) : Wear face-shield and protective suit for abnormal processing problems.
Eye wash bottle with pure water
Tightly fitting safety goggles

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Wear chemical splash goggles and face shield when there is potential for exposure of the eyes or face to liquid, vapor or mist.

Maintain eye wash station in immediate work area.

Safety glasses or goggles (EN 16321)

The use of a full-face shield or other full-face protection is strongly recommended when handling open containers or if splashes may occur

Hand protection (EN ISO 374)

Remarks : Wear resistant gloves (consult your safety equipment supplier). Discard gloves that show tears, pinholes, or signs of wear. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier. Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature.

Suggested gloves for prolonged contact:

Material: butyl rubber

Penetration time: ≥ 480 min

Material thickness: ≥ 0.7 mm

Suggested gloves for protection against splashes:

Material: nitrile rubber

Penetration time: ≥ 30 min

Material thickness: ≥ 0.4 mm

In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.

Skin and body protection (EN 14605) : Wear as appropriate:
Impervious clothing
Chemical resistant apron
Safety shoes
Flame-resistant clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may occur (EN 14605)

Respiratory protection (EN 136, EN 143, EN 14387) : In the case of vapor formation use a respirator with an approved filter.

Protective measures : No special requirements under normal use conditions

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Recommended safety measures for handling the diluted product:

Maximum recommended use concentration (% w/w): 5 %

Engineering measures

General room ventilation should be adequate for normal conditions of use. However, if unusual operating conditions exist, provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Appropriate organisational controls: : Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

REACH use scenarios considered for the undiluted product:

	SWED- Sector Specific Worker Exposure Description	LCS	PROC	Duration (min)	ERC
Manual application by dipping, soaking, pouring	AISE_SWED_IS_13_3	IS	PROC13	240 min	ERC4
Automatic application in a dedicated closed system	AISE_SWED_IS_4_1	IS	PROC4	480 min	ERC8a
Fogging	AISE_SWED_IS_7_2	IS	PROC7	480 min	ERC4
Spray application	AISE_SWED_P W_11_1	PW	PROC11	60 min	ERC8a
Manual application by dipping, soaking, pouring	AISE_SWED_P W_13_2	PW	PROC13	60 min	ERC8a
Manual application	AISE_SWED_P W_19_1	PW	PROC19	480 min	ERC8a
Automatic application in a dedicated system	AISE_SWED_P W_4_1	PW	PROC4	480 min	ERC8a

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Spray application	AISE_SWED_IS_7_5	IS	PROC7	480 min	ERC4
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Personal protective equipment

Eye protection (EN ISO 16321) : Not required under normal conditions of use. Wear splash-proof safety goggles if material could be misted or splashed into eyes.

Safety glasses are not normally required. However, their use is recommended in those cases where splashes may occur when handling the product (EN 16321)

Hand protection (EN ISO 374)

Remarks : No special requirements under normal use conditions

Skin and body protection (EN 14605) : Wear as appropriate:
Safety shoes
Wear resistant gloves (consult your safety equipment supplier).

Respiratory protection (EN 136, EN 143, EN 14387) : No personal respiratory protective equipment normally required.

Protective measures : No special requirements under normal use conditions

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Undiluted product:

Appearance : liquid

Color : colorless

Odor : characteristic

Odor Threshold : No data available

pH : < 2

Melting point/freezing point : No data available

Boiling point/boiling range : No data available

Flash point : 100,00 °C

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Evaporation rate	: No data available
Flammability	: Not flammable.
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Vapor pressure	: No data available
Relative vapor density	: No data available
Relative density	: No data available
Density	: 1,1200 g/cm3
Solubility(ies)	
Water solubility	: completely soluble, Fully miscible
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Decomposition temperature	: No data available
Viscosity	
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Explosive properties	: Not explosive
Oxidizing properties	: The substance or mixture is classified as oxidizing with the category 2.

9.2 Other information

Self-Accelerating decomposition temperature (SADT)	: ≥ 60 °C
Peroxide content	: < 7 %
Available oxygen content	: < 0,5 %
Metal corrosion rate	: Corrosive to metals
Particle size	: No data available

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Particle Size Distribution : No data available

Self-ignition : No data available

Diluted product:

Flash point : > 100 °C

SECTION 10: Stability and reactivity

10.1 Reactivity

No reactivity hazards known under normal storage and use conditions

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions.
No hazards to be specially mentioned.
Product will not undergo hazardous polymerization.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Reacts with alkalies.
May be corrosive to metals.
Keep and store away from clothing and other combustible materials.
Keep away from products containing chlorine-based bleaching agents or sulphites

10.6 Hazardous decomposition products

Oxygen

SECTION 11: Toxicological information

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

Acute toxicity

Harmful if swallowed, in contact with skin or if inhaled.

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Components:

hydrogen peroxide:

- Acute oral toxicity : LD50 (Rat, male): 1.026 mg/kg
Test substance: 70,1% solution
- LD50 (Rat, female): 694 mg/kg
Test substance: 70,1% solution
- LD50 (Rat, female): ca. 485,8 mg/kg
Method: Calculation method
- Acute inhalation toxicity : LC50 (Rat): > 1 - < 5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Remarks: No mortality observed at this dose.
- Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg
Assessment: Not classified as acutely toxic by dermal absorption under GHS.
Remarks: No mortality observed at this dose.

acetic acid:

- Acute oral toxicity : LD50 (Rat): 3.310 mg/kg

peracetic acid:

- Acute oral toxicity : LD50 (Rat): 80 mg/kg
- Acute inhalation toxicity : LC50 (Rat): 0,2 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Assessment: Corrosive to the respiratory tract.
- Acute dermal toxicity : LD50 (Rabbit): 60 mg/kg

alkyl alcohol ethoxylate:

- Acute oral toxicity : LD50 Oral (Rat, male and female): > 300 - 2.000 mg/kg
Method: OECD Test Guideline 401
Remarks: Weight of evidence
- Acute dermal toxicity : LD50 Dermal (Rabbit): > 2.000 mg/kg
Remarks: Weight of evidence

Skin corrosion/irritation

Causes severe burns.

Product:

- Remarks : Extremely corrosive and destructive to tissue.

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Causes severe skin burns and eye damage.

Components:

hydrogen peroxide:

Species : Rabbit
Result : Corrosive after 3 minutes or less of exposure

acetic acid:

Result : Corrosive to skin

peracetic acid:

Result : Causes severe burns.

alkyl alcohol ethoxylate:

Method : Weight of evidence
Result : No skin irritation

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Remarks : May cause irreversible eye damage.

Components:

hydrogen peroxide:

Result : Corrosive to eyes

acetic acid:

Result : Corrosive to eyes

peracetic acid:

Species : Rabbit
Result : Corrosive to eyes

alkyl alcohol ethoxylate:

Species : Rabbit
Method : OECD Test Guideline 437
Result : Risk of serious damage to eyes.
Remarks : Weight of evidence

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Respiratory or skin sensitization

Skin sensitization

Not classified due to lack of data.

Respiratory sensitization

Not classified due to lack of data.

Components:

peracetic acid:

Test Type : Maximization Test
Species : Guinea pig

alkyl alcohol ethoxylate:

Method : Weight of evidence
Result : Does not cause skin sensitization.

Germ cell mutagenicity

Not classified due to lack of data.

Components:

hydrogen peroxide:

Genotoxicity in vitro : Test Type: Ames test
Result: Positive results were obtained in some in vitro tests.

peracetic acid:

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

alkyl alcohol ethoxylate:

Genotoxicity in vitro : Method: OECD Test Guideline 473
Result: In vitro tests did not show mutagenic effects

Germ cell mutagenicity-Assessment : Weight of evidence does not support classification as a germ cell mutagen.

Carcinogenicity

Not classified due to lack of data.

Components:

alkyl alcohol ethoxylate:

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

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Reproductive toxicity

Not classified due to lack of data.

Components:

alkyl alcohol ethoxylate:

Effects on fetal development : Species: Rat
Remarks: No test guideline followed
No significant adverse effects were reported

Reproductive toxicity - : No toxicity to reproduction
Assessment

STOT-single exposure

May cause respiratory irritation.
Corrosive to the respiratory tract.

Components:

hydrogen peroxide:

Target Organs : Respiratory Tract
Assessment : May cause respiratory irritation.

STOT-repeated exposure

Not classified due to lack of data.

Repeated dose toxicity

Components:

alkyl alcohol ethoxylate:

NOAEL : 80 mg/kg bw/day
Application Route : Dermal
Exposure time : 90 d
Method : OECD Test Guideline 411

NOAEL : 80 - 400 mg/kg bw/day
Application Route : Oral
Method : OECD Test Guideline 408

Aspiration toxicity

Not classified due to lack of data.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : This substance/mixture does not contain components

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considered to have endocrine disrupting properties for human health according to UK REACH Article 57(f), at levels of 0.1% or higher.

Assessment : This substance/mixture does not contain components considered to have endocrine disrupting properties for human health according to UK REACH Article 57(f), at levels of 0.1% or higher.

Components:

acetic acid:

Inhalation : Target Organs: Upper respiratory tract

Further information

Product:

Remarks : No data available

SECTION 12: Ecological information

12.1 Toxicity

Components:

hydrogen peroxide:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 16,4 mg/l
Exposure time: 96 h
Test Type: semi-static test

Toxicity to daphnia and other aquatic invertebrates : LC 50 (Daphnia magna (Water flea)): 2,4 mg/l
Exposure time: 48 h
Test Type: semi-static test

Toxicity to algae/aquatic plants : EC50 (Skeletonema costatum (diatom)): 1,38 mg/l
End point: Growth inhibition
Exposure time: 72 h
Test Type: static test

NOEC (Skeletonema costatum (diatom)): 0,63 mg/l
End point: Growth inhibition
Exposure time: 72 h
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : NOEC: 0,63 mg/l
Exposure time: 21 d

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(Chronic toxicity)

Species: *Daphnia magna* (Water flea)
Test Type: flow-through test

acetic acid:

Toxicity to fish : LC50 (*Lepomis macrochirus*): 75 mg/l
Exposure time: 96 h
Test Type: static test

LC50 (*Pimephales promelas* (fathead minnow)): 79 mg/l
Exposure time: 96 h
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 65 mg/l
Exposure time: 48 h
Test Type: static test

peracetic acid:

Toxicity to fish : LC50 (*Lepomis macrochirus* (Bluegill sunfish)): 1,1 mg/l
Exposure time: 96 h
Test Type: semi-static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 0,73 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae/aquatic plants : EC50 (*Selenastrum capricornutum* (green algae)): 0,05 mg/l
Exposure time: 72 h

M-Factor (Acute aquatic toxicity) : 10

Toxicity to microorganisms : EC50 (activated sludge): 5,1 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209

Toxicity to fish (Chronic toxicity) : NOEC: 0,00069 mg/l
Exposure time: 33 d
Species: *Danio rerio* (zebra fish)
Method: OECD Test Guideline 210

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,0121 mg/l
Exposure time: 21 d
Species: *Daphnia magna* (Water flea)
Method: OECD Test Guideline 211

M-Factor (Chronic aquatic toxicity) : 100

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alkyl alcohol ethoxylate:

Toxicity to fish : LC50 (Fish): 5 - 7 mg/l
Exposure time: 96 h
Test Type: semi-static test
Method: Tested according to Directive 92/69/EEC.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia): 1,3 - 1,86 mg/l
Exposure time: 48 h
Method: Tested according to Directive 92/69/EEC.

Toxicity to algae/aquatic plants : ErC50 : 1,4 - 47 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (Bacteria): > 140 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209

Toxicity to fish (Chronic toxicity) : LC10: 8.983 mg/l
Exposure time: 21 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10: 2,579 mg/l
Exposure time: 21 d
Species: Daphnia sp. (Water flea)

12.2 Persistence and degradability

Components:

hydrogen peroxide:

Biodegradability : Result: The methods for determining biodegradability are not applicable to inorganic substances.

acetic acid:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 74 %
Exposure time: 14 d
Method: OECD Test Guideline 301C

Biochemical Oxygen Demand (BOD) : Biochemical oxygen demand within 5 days
0,34 - 0,88 g/g

Chemical Oxygen Demand (COD) : > 1 g/g
Method: Chemical oxygen demand

peracetic acid:

Biodegradability : Result: Not readily biodegradable.

alkyl alcohol ethoxylate:

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Biodegradability : Test Type: aerobic
Result: Readily biodegradable.
Biodegradation: 76 %
Exposure time: 28 d
Method: OECD Test Guideline 301B

12.3 Bioaccumulative potential

Components:

acetic acid:

Partition coefficient: n-octanol/water : log Pow: -0,17

alkyl alcohol ethoxylate:

Bioaccumulation : Bioconcentration factor (BCF): 14
Remarks: The substance has high potential for bioaccumulation.

Partition coefficient: n-octanol/water : log Pow: 2,42

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment : This substance/mixture does not contain components considered to have endocrine disrupting properties for environment according to UK REACH Article 57(f) at levels of 0.1% or higher.

Assessment : This substance/mixture does not contain components considered to have endocrine disrupting properties for environment according to UK REACH Article 57(f) at levels of 0.1% or higher.

No data available

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12.7 Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Send to a licensed waste management company.
The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.

Dispose of in accordance with local regulations.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.

SECTION 14: Transport information

14.1 UN number or ID number

ADR: UN3149

ADN: UN3149

RID: UN3149

IMDG-Code: UN3149

IATA-DGR: UN3149

14.2 UN proper shipping name

ADR: HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED

ADN: HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED

RID: HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED

IMDG-Code: HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED

IATA-DGR: Hydrogen peroxide and peroxyacetic acid mixture stabilized

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14.3 Transport hazard class(es)

ADR: 5.1 (8)
ADN: 5.1 (8)
RID: 5.1 (8)
IMDG-Code: 5.1 (8)
IATA-DGR: 5.1 (8)

14.4 Packing group

ADR: II
ADN: II
RID: II
IMDG-Code: II
IATA-DGR: II

14.5 Environmental hazards

ADR: Environmentally hazardous
ADN: Environmentally hazardous
RID: Environmentally hazardous
IMDG-Code: Marine pollutant
IATA-DGR: Environmentally hazardous

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

UK REACH List of substances subject to authorisation : Not applicable
(Annex XIV)

UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation : Not applicable

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The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain) : Not applicable

The Control of Explosives Precursors and Poisons Regulations (Poisons Act, as amended) : hydrogen peroxide

GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation : Not applicable

Control of Major Accident Hazards Regulations 2015 (COMAH) P8 OXIDISING LIQUIDS AND SOLIDS

E1 ENVIRONMENTAL HAZARDS

Regulation (EC) No. 648/2004, as amended : 15 % or over but less than 30 %: Oxygen-based bleaching agents
less than 5 %: Non-ionic surfactants

Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

Ingredients which must be listed on the label

Hydrogen peroxide (Hydrogen peroxide)
Acetic acid (Acetic acid)
Peracetic acid (Peracetic Acid)
alkyl alcohol ethoxylate (C9-11 Pareth-5-10)

The ingredients of this product are reported in the following inventories:

TCSI : On the inventory, or in compliance with the inventory
TSCA : All substances listed as active on the TSCA inventory
AIIC : On the inventory, or in compliance with the inventory
CA. DSL : All components of this product are on the Canadian DSL
ENCS : On the inventory, or in compliance with the inventory
KECI : Not in compliance with the inventory

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PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this mixture.

SECTION 16: Other information

Further information

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Classification of the mixture:

Ox. Liq. 2	H272
Org. Perox. G	
Met. Corr. 1	H290
Acute Tox. 4	H302
Acute Tox. 4	H332
Acute Tox. 4	H312
Skin Corr. 1	H314
Eye Dam. 1	H318
STOT SE 3	H335
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

Classification procedure:

Based on product data or assessment
Based on product data or assessment
Based on product data or assessment
Calculation method
Calculation method
Calculation method
Based on product data or assessment
Based on product data or assessment
Calculation method
Calculation method
Calculation method

Full text of H-Statements

H226	: Flammable liquid and vapor.
H242	: Heating may cause a fire.
H271	: May cause fire or explosion; strong oxidizer.
H301	: Toxic if swallowed.
H302	: Harmful if swallowed.
H310	: Fatal in contact with skin.
H314	: Causes severe skin burns and eye damage.
H318	: Causes serious eye damage.
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.

Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Acute	: Short-term (acute) aquatic hazard

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Aquatic Chronic	: Long-term (chronic) aquatic hazard
Eye Dam.	: Serious eye damage
Flam. Liq.	: Flammable liquids
Org. Perox.	: Organic peroxides
Ox. Liq.	: Oxidizing liquids
Skin Corr.	: Skin corrosion
STOT SE	: Specific target organ toxicity - single exposure
2017/164/EU	: Europe. Commission Directive 2017/164/EU establishing a fourth list of indicative occupational exposure limit values
GB EH40	: UK. EH40 WEL - Workplace Exposure Limits
2017/164/EU / STEL	: Short term exposure limit
2017/164/EU / TWA	: Limit Value - eight hours
GB EH40 / TWA	: Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL	: Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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Sources of key data used to compile the Material Safety Data Sheet

Key literature references and sources of data

SOLENIS Internal data

SOLENIS internal data including own and sponsored test reports

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This SDS has been prepared by the Solenis Environmental Health and Safety Department.

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