



SAFETY DATA SHEET WP20

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

1.1. Product identifier

Product name WP20

Product number WP20

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

Identified uses Disinfectant.

1.3. Details of the supplier of the safety data sheet

Supplier COVENTRY CHEMICALS LTD
WOODHAMS RD
SISKIN DRIVE
COVENTRY
CV3 4FX
Tel: +44 (0) 02476639739
Fax: +44 (0) 02476639717
Email: sales@coventrychemicals.com

Contact person For content of safety data sheet:, healthcare@mirius.com

1.4. Emergency telephone number

Emergency telephone +44 (0) 1865407333 (Strictly for emergencies only: incidents involving damage to human health and/or the environment)

National emergency telephone number In case of a medical emergency following exposure to a chemical call NHS Direct in England or Wales 0845 46 47 or NHS 24 in Scotland 08454 24 24 24

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Ox. Liq. 2 - H272 Met. Corr. 1 - H290

Health hazards Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Corr. 1A - H314 Eye Dam. 1 - H318 STOT SE 3 - H335

Environmental hazards Aquatic Chronic 1 - H410

2.2. Label elements

Hazard pictograms



Signal word

Danger

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Hazard statements	<p>H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.</p> <p>H314 Causes severe skin burns and eye damage.</p> <p>H335 May cause respiratory irritation.</p> <p>H410 Very toxic to aquatic life with long lasting effects.</p> <p>H272 May intensify fire; oxidiser.</p> <p>H290 May be corrosive to metals.</p>
Precautionary statements	<p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P260 Do not breathe vapour/ spray.</p> <p>P273 Avoid release to the environment.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P221 Take any precaution to avoid mixing with combustibles.</p> <p>P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</p> <p>P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P310 Immediately call a POISON CENTER/ doctor.</p> <p>P390 Absorb spillage to prevent material damage.</p>
Contains	<p>HYDROGEN PEROXIDE, ACETIC ACID, peracetic acid . . . %, ALKYL ALCOHOL (C9-11) ETHOXYLATES</p>
Supplementary precautionary statements	<p>P220 Keep away from combustible materials.</p> <p>P234 Keep only in original packaging.</p> <p>P261 Avoid breathing vapour/ spray.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P270 Do not eat, drink or smoke when using this product.</p> <p>P271 Use only outdoors or in a well-ventilated area.</p> <p>P301+P312 IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P321 Specific treatment (see medical advice on this label).</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse.</p> <p>P363 Wash contaminated clothing before reuse.</p> <p>P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.</p> <p>P391 Collect spillage.</p> <p>P403+P233 Store in a well-ventilated place. Keep container tightly closed.</p> <p>P405 Store locked up.</p> <p>P406 Store in a corrosion-resistant container with a resistant inner liner.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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HYDROGEN PEROXIDE		10-30%
CAS number: 7722-84-1	EC number: 231-765-0	REACH registration number: 01-2119485845-22-XXXX
Classification Ox. Liq. 1 - H271 Acute Tox. 4 - H302 Acute Tox. 4 - H332 Skin Corr. 1A - H314 Eye Dam. 1 - H318 STOT SE 3 - H335	Classification (67/548/EEC or 1999/45/EC) R5 O;R8 C;R35 Xn;R20/22	
ACETIC ACID		10-30%
CAS number: 64-19-7	EC number: 200-580-7	REACH registration number: 01-2119475328-30-XXXX
Classification Flam. Liq. 3 - H226 Skin Corr. 1A - H314 Eye Dam. 1 - H318		
PERACETIC ACID		5-10%
CAS number: 79-21-0	EC number: 201-186-8	
M factor (Acute) = 1	M factor (Chronic) = 10	
Classification Flam. Liq. 3 - H226 Org. Perox. D - H242 Acute Tox. 2 - H300 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Corr. 1A - H314 Eye Dam. 1 - H318 STOT SE 3 - H335 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	Classification (67/548/EEC or 1999/45/EC) O;R7 R10 C;R35 Xn;R20/21/22 N;R50	
ALKYL ALCOHOL (C9-11) ETHOXYLATES		1-5%
CAS number: 68439-46-3	EC number: 266-367-6	
Classification Eye Dam. 1 - H318		

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Get medical attention immediately. Provide eyewash station and safety shower. Show this Safety Data Sheet to the medical personnel.

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Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention immediately.
Ingestion	Never give anything by mouth to an unconscious person. Do not induce vomiting. Remove person to fresh air and keep comfortable for breathing. Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention immediately.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Continue to rinse for at least 15 minutes and get medical attention. Wash contaminated clothing before reuse.
Eye contact	Remove affected person from source of contamination. Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse.
Protection of first aiders	First aid personnel should wear appropriate protective equipment during any rescue.

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

General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure. Chemical burns must be treated by a physician. Get medical attention immediately.
Inhalation	Irritating to respiratory system. A single exposure may cause the following adverse effects: Severe irritation of nose and throat. May cause coughing and difficulties in breathing. Lung oedema. Repeated exposure may cause chronic upper respiratory irritation.
Ingestion	This product is strongly corrosive. May be harmful if swallowed and enters airways. Small amounts may cause serious damage. Nausea, vomiting. Diarrhoea. Coughing. Pain or irritation. May cause chemical burns in mouth, oesophagus and stomach.
Skin contact	May be harmful in contact with skin. May cause serious chemical burns to the skin.
Eye contact	This product is corrosive. May cause blurred vision and serious eye damage. Redness. Irritation, burning, lachrymation, blurred vision after liquid splash. Corneal damage.

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

Notes for the doctor	Get medical attention immediately. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Chemical burns must be treated by a physician. If swallowed: Avoid gastric lavage (risk of perforation)
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Use fire-extinguishing media suitable for the surrounding fire. Water. Water spray.

5.2. Special hazards arising from the substance or mixture

Specific hazards May cause fire or explosion; strong oxidiser.

Hazardous combustion products Oxides of carbon. Oxides of nitrogen.

5.3. Advice for firefighters

Protective actions during firefighting Control run-off water by containing and keeping it out of sewers and watercourses.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Wear chemical protective suit.

SECTION 6: Accidental release measures

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6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Evacuate area. Keep unnecessary and unprotected personnel away from the spillage. No smoking, sparks, flames or other sources of ignition near spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes.
For emergency responders	Keep wetted with water. Drying out of the product on clothing or other combustible materials may cause, or increase the risk of, fire. Stop leak if safe to do so.

6.2. Environmental precautions

Environmental precautions	Avoid or minimise the creation of any environmental contamination. Collect and dispose of spillage as indicated in Section 13. Do not discharge into drains or watercourses or onto the ground. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.
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6.3. Methods and material for containment and cleaning up

Methods for cleaning up	Do not touch or walk into spilled material. Stop leak if safe to do so. Absorb in vermiculite, dry sand or earth and place into containers. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Do not use sawdust or other combustible material. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses.
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6.4. Reference to other sections

Reference to other sections	See Section 1 for emergency contact information. For personal protection, see Section 8. See Section 11 for additional information on health hazards. For waste disposal, see Section 13.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions	Avoid spilling. Avoid contact with skin and eyes. Provide adequate ventilation. Wear protective clothing as described in Section 8 of this safety data sheet. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Do not eat, drink or smoke when using this product. Pregnant or breastfeeding women should not work with this product if there is any risk of exposure. Keep away from oxidising materials, heat and flames.
Advice on general occupational hygiene	Provide eyewash station and safety shower. Good personal hygiene procedures should be implemented. Do not eat, drink or smoke when using this product. Wash promptly with soap and water if skin becomes contaminated. Take off immediately all contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions	Store in tightly-closed, original container in a dry, cool and well-ventilated place. Only store in correctly labelled containers. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from food and drink. OP Storage (Burning Rate) Type IV according to the BGV B4 test method Suitable container materials: Stainless steel. Approved grades of HDPE
Storage class	Corrosive storage.

7.3. Specific end use(s)

Specific end use(s)	The identified uses for this product are detailed in Section 1.2.
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SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

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HYDROGEN PEROXIDE

Long-term exposure limit (8-hour TWA): WEL 1 ppm 1.4 mg/m³

Short-term exposure limit (15-minute): WEL 2 ppm 2.8 mg/m³

ACETIC ACID

Short-term exposure limit (15-minute): WEL 20 ppm 50 mg/m³

Long-term exposure limit (8-hour TWA): WEL 10 ppm 25 mg/m³

WEL = Workplace Exposure Limit.

HYDROGEN PEROXIDE (CAS: 7722-84-1)

DNEL	Workers - Inhalation; Long term local effects: 1.4 mg/m ³
	Workers - Inhalation; Short term local effects: 3 mg/m ³
	General population - Inhalation; Long term local effects: 0.21 mg/m ³
	General population - Inhalation; Short term local effects: 1.93 mg/m ³
PNEC	- Fresh water; 0.0126 mg/l
	- marine water; 0.0126 mg/l
	- STP; 4.66 mg/l
	- Sediment (Freshwater); 0.047 mg/kg
	- Sediment (Marinewater); 0.047 mg/kg
	- Soil; 0.002 mg/kg
	Intermittent release; 0.0138 mg/l

ACETIC ACID (CAS: 64-19-7)

DNEL	Workers - Inhalation; Long term local effects: 25 mg/m ³
	Workers - Inhalation; Short term local effects: 25 mg/m ³
	General population - Inhalation; Long term local effects: 25 mg/m ³
	General population - Inhalation; Short term local effects: 25 mg/m ³
PNEC	- Fresh water; 3.058 mg/l
	- marine water; 0.306 mg/l
	- Intermittent release; 30.58 mg/l
	- STP; 85 mg/l
	- Sediment (Freshwater); 11.36 mg/kg
	- Sediment (Marinewater); 1.136 mg/kg
	- Soil; 0.47 mg/kg

PERACETIC ACID (CAS: 79-21-0)

DNEL	Workers - Inhalation; Long term systemic effects: 0.56 mg/m ³
	Workers - Inhalation; Short term systemic effects: 0.56 mg/m ³
	Workers - Inhalation; Long term systemic effects: 0.56 mg/m ³
	Workers - Inhalation; Short term local effects: 0.56 mg/m ³
	General population - Inhalation; Long term systemic effects: 0.28 mg/m ³
	General population - Inhalation; Short term systemic effects: 0.28 mg/m ³
	General population - Inhalation; Long term local effects: 0.28 mg/m ³
	General population - Inhalation; Short term local effects: 0.28 mg/m ³
	General population - Oral; Long term systemic effects: 1.25 mg/kg/day
General population - Oral; Short term systemic effects: 1.25 mg/kg/day	

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PNEC	- Fresh water; 94 ng/L
	- Intermittent release; 1.6 µg/L
	- marine water; 4.9 ng/L
	- STP; 51 µg/L
	- Sediment (Freshwater); 77 ng/kg
	- Sediment (Marinewater); 15 ng/kg
	- Soil; 0.32 mg/kg

ALKYL ALCOHOL (C9-11) ETHOXYLATES (CAS: 68439-46-3)

DNEL	Workers - Inhalation; Long term systemic effects: 294 mg/m ³
	Workers - Dermal; Long term systemic effects: 2080 mg/kg/day
	General population - Inhalation; Long term systemic effects: 87 mg/m ³
	General population - Dermal; Long term systemic effects: 1250 mg/kg/day
	General population - Oral; Long term systemic effects: 25 mg/kg/day
PNEC	- Fresh water; 0.104 mg/l
	- marine water; 0.104 mg/l
	- Intermittent release; 0.014 mg/l
	- STP; 1.4 mg/l
	- Sediment (Freshwater); 13.7 mg/kg
	- Sediment (Marinewater); 13.7 mg/kg
- Soil; 1 mg/kg	

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles or face shield. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. It is recommended that gloves are made of the following material: Butyl rubber. The selected gloves should have a breakthrough time of at least 8 hours. Thickness: ≥ 0.4 mm To protect hands from chemicals, gloves should comply with European Standard EN374. Frequent changes are recommended.

Other skin and body protection

Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible. Wear an apron and protective sleevelets made of the following material: Butyl rubber.

Hygiene measures

Provide eyewash station and safety shower. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly with soap and water if skin becomes contaminated. Use appropriate skin cream to prevent drying of skin.

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Respiratory protection	Respiratory protection may be required if excessive airborne contamination occurs. Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit. Resporator with a vapour filter (EN 141) Recommended Filter type: ABEK-P2
Environmental exposure controls	Avoid releasing into the environment. Keep container tightly sealed when not in use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Colourless liquid.
Colour	Colourless.
Odour	Pungent.
Odour threshold	No data available.
pH	pH (concentrated solution): <2 pKa: 8.2 @ 25°C
Melting point	-42°C Calculation method.
Initial boiling point and range	105°C
Flash point	74-83°C Closed cup.
Evaporation rate	No data available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	The product is not flammable. Heating may cause a fire.
Vapour pressure	32 hPa @ 25°C
Vapour density	No specific test data are available.
Relative density	1.1
Bulk density	Not available.
Solubility(ies)	Completely soluble in water. Soluble in the following materials: Organic solvents. Almost insoluble in the following materials: Aromatic solvents.
Partition coefficient	log Pow: -0.52
Auto-ignition temperature	No specific test data are available.
Decomposition Temperature	>=60°C
Viscosity	Not determined.
Explosive properties	Not considered to be explosive.
Oxidising properties	May intensify fire; oxidiser.

9.2. Other information

Other information	Corrosive to Metal
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SECTION 10: Stability and reactivity

10.1. Reactivity

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Reactivity Under normal conditions of storage and use, no hazardous reactions will occur. Will decompose at temperatures exceeding 60°C. Heating may cause a fire.

10.2. Chemical stability

Stability Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions The following materials may react with the product: Strong oxidising agents. Strong mineral acids. Strong alkalis.

10.4. Conditions to avoid

Conditions to avoid Avoid excessive heat for prolonged periods of time. Avoid exposure to high temperatures or direct sunlight. Drying out of the product on clothing or other combustible materials may cause, or increase the risk of, fire. Risk of explosion if heated under confinement.

10.5. Incompatible materials

Materials to avoid Strong acids. Strong oxidising agents. Strong alkalis. Powdered metal. Chemically-active metals. Reducing agents. Organic compounds. Flammable/combustible materials.

10.6. Hazardous decomposition products

Hazardous decomposition products Thermal decomposition or combustion products may include the following substances: Oxygen.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 652.0

Species Rat

Notes (oral LD₅₀) 11.7% PAA mixture , ,

ATE oral (mg/kg) 652.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 1,957.0

Species Rabbit

Notes (dermal LD₅₀) 11.7% PAA mixture , ,

ATE dermal (mg/kg) 1,957.0

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Calculation method.

ATE inhalation (gases ppm) 18,000.0

ATE inhalation (vapours mg/l) 44.0

ATE inhalation (dusts/mists mg/l) 6.0

Skin corrosion/irritation

Skin corrosion/irritation Corrosive to skin.

Serious eye damage/irritation

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Serious eye damage/irritation Causes serious eye damage.

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity Based on available data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

Toxicological information on ingredients.

HYDROGEN PEROXIDE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 693.7

Species Rat

Notes (oral LD₅₀) Harmful if swallowed. REACH dossier information.

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 2,000.1

Species Rabbit

Notes (dermal LD₅₀) REACH dossier information.

ATE dermal (mg/kg) 2,000.1

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Harmful if inhaled. Endpoint waived according to REACH Annex VII, IX or XI.

Skin corrosion/irritation

Skin corrosion/irritation Corrosive to skin. Skin Corr. 1B; H314: 50 % ≤ C < 70 %

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye damage. Eye Dam. 1; H318: 8 % ≤ C < 50 %

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Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity Based on available data the classification criteria are not met.

IARC carcinogenicity

IARC Group 3 Not classifiable as to its carcinogenicity to humans.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

ACETIC ACID

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 3,310.0

Species Rat

Notes (oral LD₅₀) REACH dossier information.

ATE oral (mg/kg) 3,310.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ gases ppmV) 16,000.0

Species Rat

Notes (inhalation LC₅₀) REACH dossier information.

Skin corrosion/irritation

Skin corrosion/irritation This substance has specific concentration limits. Causes severe burns. 1B - 25% < C < 90% 1A - C > 90% Causes skin irritation. 10% < C < 25% REACH dossier information.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye irritation. 10% < C < 25% REACH dossier information.

Respiratory sensitisation

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Respiratory sensitisation	No information available. REACH dossier information.
<u>Skin sensitisation</u>	
Skin sensitisation	Data lacking. REACH dossier information.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Based on available data the classification criteria are not met. REACH dossier information.
Genotoxicity - in vivo	This substance has no evidence of mutagenic properties. REACH dossier information.
<u>Carcinogenicity</u>	
Carcinogenicity	REACH dossier information. Based on available data the classification criteria are not met.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Data lacking. REACH dossier information.
<u>Specific target organ toxicity - single exposure</u>	
STOT - single exposure	Not classified as a specific target organ toxicant after a single exposure.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	Not classified as a specific target organ toxicant after repeated exposure. REACH dossier information.

PERACETIC ACID

<u>Acute toxicity - oral</u>	
Acute toxicity oral (LD₅₀ mg/kg)	50.0
Species	Rat
Notes (oral LD₅₀)	Harmful if swallowed. REACH dossier information.
ATE oral (mg/kg)	50.0
<u>Acute toxicity - dermal</u>	
Acute toxicity dermal (LD₅₀ mg/kg)	1,174.0
Species	Rabbit
Notes (dermal LD₅₀)	REACH dossier information. Harmful in contact with skin.
ATE dermal (mg/kg)	1,174.0
<u>Acute toxicity - inhalation</u>	
Acute toxicity inhalation (LC₅₀ vapours mg/l)	204.0
Species	Rat
Notes (inhalation LC₅₀)	Harmful if inhaled. REACH dossier information.
ATE inhalation (gases ppm)	4,500.0

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ATE inhalation (vapours mg/l)	11.0
ATE inhalation (dusts/mists mg/l)	1.5
<u>Skin corrosion/irritation</u>	
Skin corrosion/irritation	Corrosive to skin.
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	Causes serious eye damage.
<u>Respiratory sensitisation</u>	
Respiratory sensitisation	No information available.
<u>Skin sensitisation</u>	
Skin sensitisation	Based on available data the classification criteria are not met.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Based on available data the classification criteria are not met.
<u>Carcinogenicity</u>	
Carcinogenicity	Based on available data the classification criteria are not met.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Based on available data the classification criteria are not met.
<u>Specific target organ toxicity - single exposure</u>	
STOT - single exposure	May cause respiratory irritation.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	Based on available data the classification criteria are not met.
<u>Aspiration hazard</u>	
Aspiration hazard	Based on available data the classification criteria are not met.

SECTION 12: Ecological information

Ecotoxicity The product contains a substance which may have hazardous effects on the environment.

12.1. Toxicity

Toxicity The product contains a substance which is harmful to aquatic organisms.

Ecological information on ingredients.**HYDROGEN PEROXIDE****Acute aquatic toxicity**

Acute toxicity - fish LC₅₀, : 16.4 mg/l,
REACH dossier information.

Acute toxicity - aquatic invertebrates LC₅₀, : 2.4 mg/l,
REACH dossier information.

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Acute toxicity - microorganisms EC₅₀, : 1000 mg/l,

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates NOEC, 21 days: 630 µg/L, Daphnia magna

ACETIC ACID**Acute aquatic toxicity**

Acute toxicity - fish LC₅₀, 96 hours: >300.8 mg/l, Oncorhynchus mykiss (Rainbow trout)
REACH dossier information.

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 300.82 mg/l, Daphnia magna
REACH dossier information.

PERACETIC ACID**Acute aquatic toxicity**

LE(C)₅₀ 0.1 < L(E)C₅₀ ≤ 1

M factor (Acute) 1

Acute toxicity - fish LC₅₀, : 530 mg/l, Freshwater fish
LC₅₀, : 11 mg/l, Marinewater fish
REACH dossier information.

Acute toxicity - aquatic invertebrates EC₅₀, : 0.73 mg/l, Daphnia magna
REACH dossier information.

Chronic aquatic toxicity

NOEC 0.0001 < NOEC ≤ 0.001

Degradability Rapidly degradable

M factor (Chronic) 10

Chronic toxicity - fish early life stage NOEC, : 0.0001 mg/l, Freshwater fish

Chronic toxicity - aquatic invertebrates NOEC, : 0.012 mg/l, Freshwater invertebrates
REACH dossier information.

12.2. Persistence and degradability

Persistence and degradability The product is readily biodegradable. The surfactant(s) contained in this product complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them at their direct request, or at the request of a detergent manufacturer.

Ecological information on ingredients.**HYDROGEN PEROXIDE**

Biodegradation The substance is readily biodegradable.
REACH dossier information.

ACETIC ACID

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Phototransformation - Half-life : 26.7 days
REACH dossier information.

Biodegradation The substance is readily biodegradable.
- Degradation 96 %: 20 days

PERACETIC ACID

Biodegradation Water - Half-life <3min. at 0.3; 1.0; 3.0; 10; 30mg: ca.30 min at 100mg PAA/L
The substance is readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation. The product does not contain any substances expected to be bioaccumulating.

Partition coefficient log Pow: -0.52

Ecological information on ingredients.**HYDROGEN PEROXIDE**

Bioaccumulative potential The product is not bioaccumulating. Not determined: log Kow ≤ 3.

ACETIC ACID

Bioaccumulative potential BCF: 3.16, The product is not bioaccumulating.

Partition coefficient log Pow: -0.17

PERACETIC ACID

Bioaccumulative potential Low potential for bioaccumulation. log Pow: -0.52, REACH dossier information.

12.4. Mobility in soil

Mobility The product is water-soluble and may spread in water systems.

Ecological information on ingredients.**HYDROGEN PEROXIDE**

Adsorption/desorption coefficient Expected to have a low potential for adsorption. - Koc: 1.58 L/KG @ 20°C

Henry's law constant Miscible with water. 7.5x10⁻⁴ Pa m³/mol @ °C

ACETIC ACID

Adsorption/desorption coefficient - Koc: ~ 1.153l/kg @ °F

Henry's law constant 0.21 Pa m³/mol @ 25°C

PERACETIC ACID

Adsorption/desorption coefficient - Log Koc: 1.06 @ °F REACH dossier information.

Henry's law constant 0.217 Pa m³/mol @ °C REACH dossier information.

12.5. Results of PBT and vPvB assessment

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Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

Ecological information on ingredients.

HYDROGEN PEROXIDE

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

ACETIC ACID

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

PERACETIC ACID

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Other adverse effects Not known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. Dispose of contents/container in accordance with local regulations. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID)	3149
UN No. (IMDG)	3149
UN No. (ICAO)	3149
UN No. (ADN)	3149

14.2. UN proper shipping name

Proper shipping name (ADR/RID)	HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED
Proper shipping name (IMDG)	HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED
Proper shipping name (ICAO)	HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED
Proper shipping name (ADN)	HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED

14.3. Transport hazard class(es)

ADR/RID class	5.1
ADR/RID subsidiary risk	8
ADR/RID classification code	OC1
ADR/RID label	5.1

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IMDG class	5.1
IMDG subsidiary risk	8
ICAO class/division	5.1
ICAO subsidiary risk	8
ADN class	5.1
ADN subsidiary risk	8

Transport labels**14.4. Packing group**

ADR/RID packing group	II
IMDG packing group	II
ICAO packing group	II
ADN packing group	II

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

IMDG Code segregation group	16. Peroxides
EmS	F-H, S-Q
ADR transport category	2
Emergency Action Code	2P
Hazard Identification Number (ADR/RID)	58
Tunnel restriction code	(E)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

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National regulations	<p>The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended).</p> <p>Control of Pollution (Special Waste) Regulations 1980 (as amended).</p> <p>The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].</p> <p>EH40/2005 Workplace exposure limits.</p> <p>The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).</p> <p>The Hazardous Waste Regulations 2005.</p>
EU legislation	<p>Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).</p> <p>Commission Regulation (EU) No 453/2010 of 20 May 2010.</p> <p>Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work (as amended).</p> <p>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 (as amended).</p> <p>Commission Decision 2000/532/EC as amended by Decision 2001/118/EC establishing a list of wastes and hazardous waste pursuant to Council Directive 75/442/EEC on waste and Directive 91/689/EEC on hazardous waste with amendments.</p> <p>Commission Regulation (EU) No 2015/830 of 28 May 2015.</p>
Guidance	<p>CHIP for everyone HSG228.</p> <p>ECHA Guidance on the Application of the CLP Criteria.</p> <p>ECHA Guidance on the compilation of safety data sheets.</p> <p>Technical Guidance WM2: Hazardous Waste.</p> <p>Introduction to Local Exhaust Ventilation HS(G)37.</p>

15.2. Chemical safety assessment

Currently we do not have information from our suppliers about this.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet	<p>DNEL: Derived No Effect Level.</p> <p>PBT: Persistent, Bioaccumulative and Toxic substance.</p> <p>PNEC: Predicted No Effect Concentration.</p> <p>MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.</p> <p>vPvB: Very Persistent and Very Bioaccumulative.</p>
Revision date	20/08/2020
Revision	2
Supersedes date	01/10/2019
SDS number	22117

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Hazard statements in full

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.
H300 Fatal if swallowed.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
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.