

## SAFETY DATA SHEET

# i.27 flexdose

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

▼ *Trade name:*  
i.27 flexdose

*Unique formula identifier (UFI):*  
HQV4-K6F4-8MAF-QHSD

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

*Relevant identified uses of the substance or mixture:*  
Washing and cleaning products (including solvent based products)  
Restricted to professional and industrial use.

*Uses advised against :*  
None known.

### 1.3. Details of the supplier of the safety data sheet

*Company and address:*

**i-team UK**  
The Alima Centre, 35 Sefton St  
L8 5SL Toxteth, Liverpool  
United Kingdom  
+44 1945 595177

*E-mail:*  
info@hygeniq.com

*Revision:*  
17/03/2026

*SDS Version:*  
5.0

*Date of previous version:*  
10/03/2026 (4.0)

### 1.4. Emergency telephone number

Healthcare professionals: Dial 0344 892 0111 to reach The National Poisons Information Service (NPIS) (24 hour service)

General public:

England - Dial 111 to reach NHS 111 (24 hour service)

Scotland - Dial 111 to reach NHS 24 (24 hour service)

Wales - Dial 111 or 0845 4647 to reach NHS Direct (24 hour service)

See section 4 "First aid measures".

## SECTION 2: HAZARDS IDENTIFICATION

Classified according to Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

### 2.1. Classification of the substance or mixture

Eye Dam. 1; H318, Causes serious eye damage.

### 2.2. Label elements

*Hazard pictogram(s):*



*Signal word:*

Danger

*Hazard statement(s):*

Causes serious eye damage. (H318)

*Precautionary statement(s):*

*General:*

Not applicable.

*Prevention:*

Wear eye protection/protective gloves. (P280)

*Response:*

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. (P305+P351+P338)

Immediately call a POISON CENTER/doctor. (P310)

*Storage:*

Not applicable.

*Disposal:*

Not applicable.

*Hazardous substances:*

hydrogen peroxide solution

*Additional labelling:*

UFI: HQV4-K6F4-8MAF-QHSD

*Labelling of contents according to Detergents Regulation (EC) No 648/2004 as retained and amended in UK law:*

≥5% - <15%

· Oxygen-based bleaching Agents

### 2.3. Other hazards

*Additional warnings:*

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

This product does not contain any substances considered to be endocrine disruptors in accordance with the

criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2023/707.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

Not applicable. This product is a mixture.

### 3.2. ▼ Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
hydrogen peroxide solution	CAS No.: 7722-84-1 EC No.: 231-765-0 UK-REACH: Index No.: 008-003-00-9	10-15%	Ox. Liq. 1, H271 (C ≥ 70%****) Ox. Liq. 2, H272 (50% ≤ C < 70%****) Acute Tox. 4, H302 Skin Corr. 1A, H314 (C ≥ 70%) Skin Corr. 1B, H314 (50% ≤ C < 70%) Skin Irrit. 2, H315 (35% ≤ C < 50%) Eye Dam. 1, H318 (8% ≤ C < 50%) Eye Irrit. 2, H319 (5% ≤ C < 8%) Acute Tox. 4, H332 STOT SE 3, H336 (C ≥ 35%)	
Disodium tin hexahydroxide	CAS No.: 12027-70-2 EC No.: 234-724-5 UK-REACH: Index No.:	<1%	Skin Corr. 1, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412	[1]
ethanol ethyl alcohol	CAS No.: 64-17-5 EC No.: 200-578-6 UK-REACH: Index No.: 603-002-00-5	<1%	Flam. Liq. 2, H225	
citric acid	CAS No.: 77-92-9 EC No.: 201-069-1 UK-REACH: Index No.: 607-750-00-3	<1%	Eye Irrit. 2, H319 STOT SE 3, H335	
2-Propenoic acid, homopolymer	CAS No.: 9003-01-4 EC No.: 618-347-7 UK-REACH: Index No.:	<0.1%		
propan-2-ol	CAS No.: 67-63-0 EC No.: 200-661-7 UK-REACH: Index No.: 603-117-00-0	<0.01%	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	
benzene benzene	CAS No.: 71-43-2 EC No.: 200-753-7 UK-REACH: Index No.: 601-020-00-8	<0.0015%	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Muta. 1B, H340 Carc. 1A, H350 STOT RE 1, H372	[1], [3], [4]
Denatonium benzoate	CAS No.: 3734-33-6 EC No.: 223-095-2 UK-REACH: Index No.:	<0.00001%	Acute Tox. 4, H302 Eye Dam. 1, H318 Acute Tox. 4, H332	

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

#### Other information

[1] European occupational exposure limit.

[3] According to UK REACH, Annex XVII, the substance is subject to restrictions.

[4] Substance is listed in Annex I of the Prior Informed Consent Regulation (PIC, Regulation (EU) 649/2012).

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

*General information:*

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

*Inhalation:*

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

*Skin contact:*

Upon irritation: rinse with water. In the event of continued irritation, seek medical assistance.

*Eye contact:*

If in eyes: Flush eyes with plenty of water or saline solution (20-30 °C) for at least 30 minutes and continue until irritation stops. Remove contact lenses. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.

*Ingestion:*

If the person is conscious, rinse the mouth with water and stay with the person. Never give the person anything to drink.

In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking on vomited material.

*Burns:*

Not applicable.

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

The product contains substances that cause serious eye damage. Contact with these substances can cause irreversible effects on the eye / serious eye damage.

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

IF exposed or concerned:

Get immediate medical advice/attention.

### Information to medics

Bring this safety data sheet or the label from this product.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

Not applicable.

### 5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Carbon oxides (CO / CO<sub>2</sub>)

### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.  
Hazchem Code: 2R

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances.  
Ensure adequate ventilation, especially in confined areas.  
Contaminated areas may be slippery.

### 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.  
Keep unauthorized persons away from the spill

### 6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.  
Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

### 6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.  
See section 8 "Exposure controls/personal protection" for protective measures.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Avoid direct contact with the product.  
Smoking, drinking and consumption of food is not allowed in the work area.  
See section 8 "Exposure controls/personal protection" for information on personal protection.

### 7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

#### *Recommended storage material:*

Keep only in original packaging.

#### *Storage conditions:*

Dry, cool and well ventilated

#### *Incompatible materials:*

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

### 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

hydrogen peroxide solution  
Long term exposure limit (8 hours) (ppm): 1  
Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 1,4  
Short term exposure limit (15 minutes) (ppm): 2  
Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 2,8

ethanol ethyl alcohol

Long term exposure limit (8 hours) (ppm): 1000  
 Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 1920

benzene benzene

Long term exposure limit (8 hours) (ppm): 1  
 Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 3,25

Annotations:

Carc = Capable of causing cancer and/or heritable genetic damage.

Sk = Can be absorbed through the skin and lead to systemic toxicity.

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002.  
 EH40/2005 Workplace exposure limits (Fourth Edition 2020).

#### DNEL

benzene benzene

Duration:	Route of exposure:	DNEL:
Long term - Systemic effects - General population	Inhalation	0.14 mg/m <sup>3</sup>
Long term - Systemic effects - General population	Inhalation	140 µg/m <sup>3</sup>
Long term - Systemic effects - Workers	Inhalation	0.8 mg/m <sup>3</sup>
Long term - Systemic effects - Workers	Inhalation	800 µg/m <sup>3</sup>

Disodium tin hexahydroxide

Duration:	Route of exposure:	DNEL:
Long term - Systemic effects - General population	Dermal	1.21 mg/kg bw/day
Long term - Systemic effects - Workers	Dermal	3.37 mg/kg bw/day
Long term - Systemic effects - General population	Inhalation	1.78 mg/m <sup>3</sup>
Long term - Systemic effects - Workers	Inhalation	11.9 mg/m <sup>3</sup>
Long term - Systemic effects - General population	Oral	1.21 mg/kg bw/day

ethanol ethyl alcohol

Duration:	Route of exposure:	DNEL:
Long term		260 mg/m <sup>3</sup>
Long term - Systemic effects - General population	Dermal	206 mg/kg
Long term - Systemic effects - Workers	Dermal	343 mg/kg
Long term - Systemic effects - General population	Inhalation	114 mg/m <sup>3</sup>
Long term - Systemic effects - Workers	Inhalation	380 mg/m <sup>3</sup>
Long term - Systemic effects - Workers	Inhalation	950 mg/m <sup>3</sup>
Short term - Local effects - General population	Inhalation	950 mg/m <sup>3</sup>
Short term - Local effects - Workers	Inhalation	1900 mg/m <sup>3</sup>
Long term - Systemic effects - General population	Oral	87 mg/kg

hydrogen peroxide solution

Duration:	Route of exposure:	DNEL:
Long term - Local effects - General population	Inhalation	0,21 mg/m <sup>3</sup>
Long term - Local effects - General population	Inhalation	0.21 mg/m <sup>3</sup>
Long term - Local effects - Workers	Inhalation	1.4 mg/m <sup>3</sup>

According to REACH Regulation (EC) No 1907/2006, as retained and amended by SI 2019/758 and SI 2020/1577

Short term – Local effects - General population	Inhalation	1.93 mg/m <sup>3</sup>
Short term – Local effects - Workers	Inhalation	3 mg/kg bw/day

#### PNEC

benzene benzene

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		80 µg/L
Freshwater		80 µg/L
Freshwater sediment		0.852 mg/kg
Freshwater sediment		1.36 mg/kg
Intermittent release (freshwater)		53 µg/L
Intermittent release (freshwater)		53 µg/L
Intermittent release (marine water)		5.3 µg/L
Intermittent release (marine water)		5.3 µg/L
Marine water		8 µg/L
Marine water		8 µg/L
Marine water sediment		85.2 µg/kg
Marine water sediment		136 µg/kg
Sewage treatment plant		39 mg/L
Sewage treatment plant		39 mg/L
Soil		0.123 mg/kg
Soil		225 µg/kg

Disodium tin hexahydroxide

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		33.1 µg/L
Freshwater sediment		1,395 mg/kg TG
Intermittent release (freshwater)		331 µg/L
Intermittent release (marine water)		33.1 µg/L
Marine water		3.31 µg/L
Marine water sediment		139.46 µg/kg
Sewage treatment plant		10 mg/L

ethanol ethyl alcohol

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		0.96 mg/L
Freshwater sediment		3.6 mg/kg
Intermittent release (freshwater)		2.75 mg/L
Marine water		0.79 mg/L
Marine water sediment		2.9 mg/kg
Predators		0.38 g/kg
Predators		0.72 mg/kg

Sewage treatment plant		580 mg/L
Soil		0.63 mg/kg

hydrogen peroxide solution

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		0,0126 mg/L
Freshwater		0.013 mg/L
Freshwater sediment		0,047 mg/kg
Freshwater sediment		0.047 mg/kg
Intermittent release (freshwater)		0.014 mg/L
Marine water		0,047 mg/L
Marine water		0.013 mg/L
Marine water sediment		0,047 mg/L
Marine water sediment		0.047 mg/kg
Sewage treatment plant		466 mg/L
Sewage treatment plant		4.66 mg/L
Soil		0,023 mg/kg
Soil		1.9 µg/kg
Soil		0.002 mg/kg

## 8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

### General recommendations:

Smoking, drinking and consumption of food is not allowed in the work area.

### Exposure scenarios:

There are no exposure scenarios implemented for this product.

### Exposure limits:

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

### Appropriate technical measures:

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.

Ensure that eyewash stations and safety showers are located within easy reach.

Apply standard precautions during use of the product. Avoid inhalation of vapours.

### Hygiene measures:

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

### Measures to avoid environmental exposure:

No specific requirements.

## Individual protection measures, such as personal protective equipment

### Generally:

Use only UKCA marked protective equipment.


### Respiratory Equipment:

Type	Class	Colour	Standards	
Respiratory protection is not needed in the event of adequate ventilation.				


*Skin protection:*

Recommended	Type/Category	Standards	
No special when used as intended.	-	-	

*Hand protection:*

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Nitrile	0.4	> 480	EN374-2, EN16523-1, EN388	

*Eye protection:*

Type	Standards	
Safety glasses with side shields.	EN166	

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

*Physical state:*

Liquid

*Colour:*

Colourless

*Odour / Odour threshold:*

Characteristic

*pH:*

ca. 4,8

*Density (g/cm<sup>3</sup>):*

1.06 (20 °C)

*Kinematic viscosity:*

No data available.

*Particle characteristics:*

Does not apply to liquids.

### Phase changes

*Melting point/Freezing point (°C):*

No data available.

*Softening point/range (°C):*

Does not apply to liquids.

*Boiling point (°C):*

No data available.

*Vapour pressure:*

No data available.

*Relative vapour density:*

No data available.

*Decomposition temperature (°C):*

No data available.

#### **Data on fire and explosion hazards**

*Flash point (°C):*

No data available.

*Flammability (°C):*

No data available.

*Auto-ignition temperature (°C):*

No data available.

*Lower and upper explosion limit (% v/v):*

No data available.

#### **Solubility**

*Solubility in water:*

Completely soluble

*n-octanol/water coefficient (LogKow):*

No data available.

*Solubility in fat (g/L):*

No data available.

#### **9.2. Other information**

*Oxidizing properties:*

Product is oxidierend

*Other physical and chemical parameters:*

No data available.

## **SECTION 10: STABILITY AND REACTIVITY**

#### **10.1. Reactivity**

No data available.

#### **10.2. Chemical stability**

The product is stable under the conditions, noted in section 7 "Handling and storage".

#### **10.3. Possibility of hazardous reactions**

None known.

#### **10.4. Conditions to avoid**

None known.

#### **10.5. Incompatible materials**

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

#### **10.6. Hazardous decomposition products**

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

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 as retained and amended in UK law

#### Acute toxicity

Product/substance	hydrogen peroxide solution
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	1.193 - 1.270 mg/L

Product/substance	hydrogen peroxide solution
Species:	Rabbit
Route of exposure:	Dermal
Test:	LD50
Result:	>2.000 ( 35% oplossing) mg/kg

Product/substance	Disodium tin hexahydroxide
Test method:	OECD 401
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	3457 mg/kg

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

#### Skin corrosion/irritation

Product/substance	hydrogen peroxide solution
Result:	Adverse effect observed (Irritating)

Product/substance	Disodium tin hexahydroxide
Duration:	4 hours

Product/substance	ethanol ethyl alcohol
Test method:	OECD 404
Species:	Rabbit
Result:	No adverse effect observed (Not irritating)

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

#### Serious eye damage/irritation

Product/substance	hydrogen peroxide solution
Result:	Adverse effect observed (Causes serious eye damage)

Product/substance	Disodium tin hexahydroxide
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Product/substance	ethanol ethyl alcohol
Test method:	OECD 405
Species:	Rabbit
Result:	Adverse effect observed (Irritating)

Causes serious eye damage.

#### Respiratory sensitisation

Product/substance	hydrogen peroxide solution
Result:	No adverse effect observed (not sensitising)

Product/substance	Disodium tin hexahydroxide
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Based on available data, the classification criteria are not met.

#### **Skin sensitisation**

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

#### **Germ cell mutagenicity**

Product/substance	Disodium tin hexahydroxide
Test method:	OECD 476
Species:	Mouse

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Product/substance	ethanol ethyl alcohol
Test method:	OECD 471
Conclusion:	No adverse effect observed

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

#### **Carcinogenicity**

Product/substance	hydrogen peroxide solution
Conclusion:	No adverse effect observed

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

#### **Reproductive toxicity**

Product/substance	hydrogen peroxide solution
Conclusion:	No adverse effect observed

Product/substance	Disodium tin hexahydroxide
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Based on available data, the classification criteria are not met.

#### **STOT-single exposure**

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

#### **STOT-repeated exposure**

Product/substance	Disodium tin hexahydroxide
Test method:	OECD 407
Species:	Rat
Route of exposure:	Oral
Result:	>100000 mg/kg

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

#### **Aspiration hazard**

Product/substance	hydrogen peroxide solution
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Based on available data, the classification criteria are not met.

#### **Symptoms related to the physical, chemical and toxicological characteristics**

The product contains substances that cause serious eye damage. Contact with these substances can cause irreversible effects on the eye / serious eye damage.

#### **11.2. Information on other hazards**

##### **Endocrine disrupting properties**

This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

##### **Other information**

hydrogen peroxide solution has been classified by IARC as a group 3 carcinogen.  
benzene benzene has been classified by IARC as a group 1 carcinogen.

## **SECTION 12: ECOLOGICAL INFORMATION**

### **12.1. Toxicity**

Product/substance	hydrogen peroxide solution
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Species: Fish, Pimephales promelas  
Duration: 96 hours  
Test: LC50  
Result: 16,4 mg/L

Product/substance: hydrogen peroxide solution  
Species: Fish, Leuciscus idus  
Duration: 72 hours  
Test: LC50  
Result: 35 mg/L

Product/substance: hydrogen peroxide solution  
Species: Fish, Oncorhynchus mykiss  
Duration: 7 days  
Test: LC50  
Result: 38,5 mg/L

Product/substance: hydrogen peroxide solution  
Species: Daphnia pulex  
Duration: 48 hours  
Test: EC50  
Result: 2,4 mg/L

Product/substance: hydrogen peroxide solution  
Species: Daphnia magna  
Duration: 24 hours  
Test: EC50  
Result: 7,7 mg/L

Product/substance: hydrogen peroxide solution  
Species: Skeletonema costatum  
Duration: 72 hours  
Test: EC50  
Result: 1,38 mg/L

Product/substance: hydrogen peroxide solution  
Test method: OECD 209  
Species: Bacteria  
Compartment: Activated Sludge Plant  
Duration: 30 minutes  
Test: EC50  
Result: 466 mg/L

Product/substance: hydrogen peroxide solution  
Test method: OECD 209  
Species: Bacteria  
Compartment: Activated Sludge Plant  
Duration: 3 hours  
Test: EC50  
Result: > 1.000 mg/L

Product/substance: Disodium tin hexahydroxide  
Test method: OECD 203  
Species: Fish  
Duration: 96 hours

According to REACH Regulation (EC) No 1907/2006, as retained and amended by SI 2019/758 and SI 2020/1577

Result: > 100 mg/L

Product/substance Disodium tin hexahydroxide  
Species: Andere waterorganismen  
Duration: 48 hours  
Test: LC50  
Result: 33,1 mg/L

Product/substance Disodium tin hexahydroxide  
Test method: OECD 201  
Species: Algae  
Duration: 72 hours  
Test: EC50  
Result: 37,9 mg/L

Product/substance Disodium tin hexahydroxide  
Test method: OECD 209  
Species: Andere waterorganismen  
Duration: 3 hours  
Test: EC50  
Result: 1000 mg/L

Product/substance ethanol ethyl alcohol  
Test method: OECD 203  
Species: Fish  
Duration: 48 hours  
Test: LC50  
Result: > 100 mg/L

Product/substance ethanol ethyl alcohol  
Test method: OECD 202  
Species: Daphnia  
Duration: 24 hours  
Test: EC50  
Result: > 100 mg/L

Product/substance ethanol ethyl alcohol  
Species: Algae  
Test: EC50  
Result: > 100 mg/L

Product/substance benzene benzene  
Species: Fish  
Test: LC50  
Result: 22 mg/L

Product/substance benzene benzene  
Species: Fish  
Test: LC50  
Result: 5,3 mg/L

Product/substance benzene benzene  
Species: Fish  
Test: LC50  
Result: >1,6 mg/L

According to REACH Regulation (EC) No 1907/2006, as retained and amended by SI 2019/758 and SI 2020/1577

Product/substance	benzene benzene
Species:	Daphnia, Daphnia magna
Duration:	48 hours
Test:	EC50
Result:	10 mg/L

Product/substance	benzene benzene
Species:	Algae, Selenastrum capricornutum
Duration:	3 days
Test:	EC50
Result:	100 mg/L

Product/substance	benzene benzene
Species:	Bacteria
Duration:	24 hours
Test:	EC50
Result:	13 mg/L

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

### 12.2. Persistence and degradability

Product/substance	hydrogen peroxide solution
Conclusion:	Readily biodegradable

Product/substance	ethanol ethyl alcohol
Duration:	5 days
Result:	> 70 %
Conclusion:	-
Test:	OECD 301 D

Product/substance	benzene benzene
Duration:	28 days
Result:	96 %
Conclusion:	Readily biodegradable
Test:	OECD 301 F

### 12.3. Bioaccumulative potential

Product/substance	hydrogen peroxide solution
LogKow:	-1,57
Conclusion:	-

Product/substance	Disodium tin hexahydroxide
Conclusion:	-

Product/substance	benzene benzene
LogKow:	2,13
Conclusion:	-

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

### 12.6. Endocrine disrupting properties

This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

### 12.7. Other adverse effects

None known.

## SECTION 13: DISPOSAL CONSIDERATIONS

### Waste treatment methods

Product is covered by the regulations on hazardous waste. (\*)

HP 8 – Corrosive

Dispose of contents/container to an approved waste disposal plant.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

### EWC code




20 01 29\* Detergents containing dangerous substances

### Specific labelling

#### Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

## SECTION 14: TRANSPORT INFORMATION

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
ADR/A DN/RID	UN2984	HYDROGEN PEROXIDE, AQUEOUS SOLUTION	Transport hazard class: 5.1 Label: 5.1 Classification code: O1 	III	No	Limited quantities: 5 L Tunnel restriction code: (E) See below for additional information.
IMDG	UN2984	HYDROGEN PEROXIDE, AQUEOUS SOLUTION	Transport hazard class: 5.1 Label: 5.1 Classification code: O1 	III	No	Limited quantities: 5 L EmS: F-H S-Q See below for additional information.
IATA	UN2984	HYDROGEN PEROXIDE, AQUEOUS SOLUTION	Transport hazard class: 5.1 Label: 5.1 Classification code: O1 	III	No	See below for additional information.

\* Packing group

\*\* Environmental hazards

### Additional information

ADR/ADN/RID / See Table A, section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.

IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

Hazchem Code: 2R

#### 14.6. Special precautions for user

Not applicable.

#### 14.7. Maritime transport in bulk according to IMO instruments

No data available.

## SECTION 15: REGULATORY INFORMATION

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

*Restrictions for application:*

Restricted to professional users.

*Demands for specific education:*

No specific requirements.

*Control of Major Accident Hazards (COMAH) - Categories / dangerous substances:*

Not applicable.

*Regulation on explosives precursors:*

hydrogen peroxide solution (Annex I)

*UK-REACH, Annex XVII:*

benzene benzene is subject to restrictions, UK-REACH annex XVII (entry 05).

ethanol ethyl alcohol is subject to UK-REACH restrictions (entry 40).

benzene benzene is subject to UK-REACH restrictions (entry 40).

*Labelling of contents according to Detergents Regulation (EC) No 648/2004 as retained and amended in UK law:*

≥5% - <15%

· Oxygen-based bleaching Agents

*Additional information:*

Not applicable.

*Sources:*

The Management of Health and Safety at Work Regulations 1999.

Regulation (EC) No 648/2004 on detergents as retained and amended in UK law.

Regulation (EU) No 649/2012 concerning the export and import of hazardous chemicals as retained and amended in UK law.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

Council Regulation (EC) No 2019/1148 on explosives precursors as retained and amended in UK law.

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) as retained and amended in UK law.

Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as retained and amended in UK law.

### 15.2. Chemical safety assessment

No

## SECTION 16: OTHER INFORMATION

### Full text of H-phrases as mentioned in section 3

H225, Highly flammable liquid and vapour.

H271, May cause fire or explosion; strong oxidiser.

H272, May intensify fire; oxidiser.

H302, Harmful if swallowed.

H304, May be fatal if swallowed and enters airways.

H314, Causes severe skin burns and eye damage.

H315, Causes skin irritation.  
H318, Causes serious eye damage.  
H319, Causes serious eye irritation.  
H332, Harmful if inhaled.  
H335, May cause respiratory irritation.  
H336, May cause drowsiness or dizziness.  
H340, May cause genetic defects.  
H350, May cause cancer.  
H372, Causes damage to organs through prolonged or repeated exposure.  
H412, Harmful to aquatic life with long lasting effects.

### Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway  
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road  
ATE = Acute Toxicity Estimate  
BCF = Bioconcentration Factor  
CAS = Chemical Abstracts Service  
CE = Conformité Européenne (European conformity)  
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
CSA = Chemical Safety Assessment  
CSR = Chemical Safety Report  
DMEL = Derived Minimal Effect Level  
DNEL = Derived No Effect Level  
EC = Effective concentration  
ED = Effective dose  
EINECS = European Inventory of Existing Commercial chemical Substances  
EL = Effective Loading  
ErC = Concentration associated with x% growth rate response  
ES = Exposure Scenario  
EUH statement = CLP-specific Hazard statement  
EuPCS = European Product Categorisation System  
EWC = European Waste Catalogue  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
GWP = Global warming potential  
HP = Hazardous Property code  
IARC = International Agency for Research on Cancer (IARC)  
IATA = International Air Transport Association  
IBC = Intermediate Bulk Container  
IC = X maximum inhibitory concentration  
IMDG = International Maritime Dangerous Goods  
LC = Lethal concentration  
LCLo = Value is the lowest concentration of a material in air reported to have caused the death of animals or humans  
LD = Lethal dose  
LOAEC = Lowest Observed Adverse Effect Concentration  
LOAEL = Lowest Observed Adverse Effect Level  
LOEC = Lowest Observed Effect Concentration  
LogKow = logarithm of the n-octanol/water coefficient  
LL = Lethal Loading  
M = For multiplication factor  
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
NOAEC = No Observed Adverse Effect Concentration  
NOAEL = No Observed Adverse Effect Level  
NOEC = No Observed Effect Concentration

NOELR = No Observable Effect Loading Rate

OECD = Organisation for Economic Co-operation and Development

PBT = Persistent, Bioaccumulative and Toxic

PNEC = Predicted No Effect Concentration

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN = REACH Registration Number

SCL = A specific concentration limit

SVHC = Substances of Very High Concern

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure

TWA = Time weighted average

UN = United Nations

UVBC = Unknown or variable composition, complex reaction products or of biological materials

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

#### **Additional information**

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

#### **The safety data sheet is validated by**

Quality & Compliance

#### **Other**

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

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