

# **SAFETY DATA SHEET**

according to Regulation (EU) 2015/830

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# Silvenox

Revision 0 Revision date 2022-03-21

	Revision date 2022-03-2		
SECTION 1: Identification of	of the substance/mixture and of the company/undertaking		
1.1. Product identifier			
Product name	Silvenox		
1.2. Relevant identified uses of the substance or mixture and uses advised against			
Product Use	[SU22] Professional uses: Public domain (administration, education, entertainment, services, craftsmen);		
Description	Silver stabilised Hydrogen Peroxide.		
1.3. Details of the supplier of the	e safety data sheet		
	- m		

Company	Oxiflo Ltd			
Address	Office M			
	11-17 Fowler Road			
	Hainault Business Park			
	Ilford			
	Essex			
	IG6 3UJ			
Web	www.oxiflo.com			
Telephone	07979 591112			
Email address of the	info@oxiflo.com			
competent person				

## 1.4 Emergency telephone number

1.4. Emergency telephone numb					
Emergency telephone number	07979 591112				
	9.00am to 17.00pm				
	For medical advice or information you should contact your GP or NHS 111 (or NHS 24 in Scotland) on 111 (for 24 hour health advice)				
	If you are a healthcare professional with an enquiry please visit www.TOXBASE.org				

# SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

2.1.2. Classification - EC	Acute Tox. 4: H302; Skin Irrit. 2: H315; Eye Dam. 1: H318; STOT SE 3: H335;
1272/2008	

1272/2008		
2.2. Label elements		
Hazard pictograms		
Signal Word	Danger	
Hazard Statement	Acute Tox. 4: H302 - Harmful if swallowed. Skin Irrit. 2: H315 - Causes skin irritation.	
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#### 2.2. Label elements

	Eye Dam. 1: H318 - Causes serious eye damage. STOT SE 3: H335 - May cause respiratory irritation.			
Precautionary Statement: Prevention	P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P280 - Wear protective gloves/protective clothing/eye protection/face protection.			
Precautionary Statement: Response	P301+P312 - IF SWALLOWED: Call a POISON CENTER/doctor/ /if you feel unwell. P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.			
Precautionary Statement: Disposal	P501 - Dispose of contents/container to an approved disposal site, in accordance with local regulations.			
SUPPLEMENTAL HAZARD INFORMATION	Contents - 50% Hydrogen Peroxide, Silver & Stabiliser.			
2.3. Other hazards	For Professional Use only.			

Other hazards

This mixture is not classified as PBT or vPvB according to current EU criteria.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

#### EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Hydrogen Peroxide <50% (Hydrogen peroxide)		7722-84-1	231-765-0	01-2119485845-22	90 - 100%	Acute Tox. 4: H302; Skin Irrit. 2: H315; Eye Dam. 1: H318; Acute Tox. 4: H332; STOT SE 3: H335;
phosphoric acid %, orthophosphoric acid % (Orthophosphoric acid)	015-011-00-6	7664-38-2	231-633-2	01-2119485924-24	0 - 0.5%	Skin Corr. 1B: H314;
Silver (Silver, metallic)		7440-22-4	231-131-3	01-2119555669-21	0 - 0.5%	Aquatic Acute 1: H400; Aquatic Chronic 1: H410;

Hydrogen Peroxide Specific Concentration Limits., STOT SE; H335 C  $\geq$  35%, Eye Dam.1; H318: 8%  $\leq$  C < 50%, Eye Irrit. 2; H319: 5 %  $\leq$  C < 8 %, Ox. Liq. 1; H271: C  $\geq$  70 %,, Ox. Liq. 2; H272:, 50%  $\leq$  C < 70 %, Skin Corr. 1A; H314: C  $\geq$  70 %, Skin Corr. 1B; H314: 50 %  $\leq$  C < 70 %, Skin Irrit. 2; H315: 35 %  $\leq$  C < 50 %. Silver (CAS No. 7440-22-4) - M Factor (Acute/Chronic) = 10.

## Further information

Product Shelf Life 1 year from the date of manufacture.

# SECTION 4: First aid measures

### 4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air. Get medical advice/attention.
Eye contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Contact lenses should be removed. Get medical advice/attention.
Skin contact	Remove contaminated clothing. Wash off immediately with plenty of soap and water. Get medical advice/attention.
Ingestion	Rinse mouth thoroughly. DO NOT INDUCE VOMITING. Get medical advice/attention.

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

Inhalation	Harmful by inhalation. May cause irritation to respiratory system.		
Eye contact	Risk of serious damage to eyes. May cause permanent damage if eye is not immediately irrigated.		
Skin contact	Causes skin irritation.		
Ingestion	Harmful if swallowed.		

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4.3. Indication of any immediate	medical attention and special treatment needed			
Inhalation	Move the exposed person to fresh air. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Seek medical attention. Show this safety data sheet to the doctor in attendance.			
Eye contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Contact lenses should be removed. Seek medical attention. Show this safety data sheet to the doctor in attendance.			
Skin contact	Remove contaminated clothing immediately. Rinse immediately with plenty of water. Seek medical attention. Show this safety data sheet to the doctor in attendance.			
Ingestion	Drink 1 to 2 glasses of water. Seek medical attention. Show this safety data sheet to the doctor in attendance.			
General information				
	If you feel unwell, seek medical advice (show the label where possible). Treat symptomatically.			
SECTION 5: Firefighting me	asures			
5.1. Extinguishing media				
	This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials. EXTINGUISHING MEDIA:. Water spray. Do NOT use water jet.			
5.2. Special hazards arising from	n the substance or mixture			
	Closed containers can burst violently when heated, due to excess pressure build-up. Keep away from combustible materials.			
5.3. Advice for firefighters				
	Fire fighters should wear self contained positive pressure breathing apparatus (SCBA) and full turnout gear. Cool fire exposed containers with waterspray.			
Further information				
	In the event of a fire and/or explosion do not breath fumes. Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.			
SECTION 6: Accidental release	ase measures			
6.1. Personal precautions, prote	ective equipment and emergency procedures			
	Wear suitable protective equipment. Avoid contact with eyes and skin. Avoid inhalation of vapour or spray/mist. Avoid sparks, flames, heat and sources of ignition. Provide adequate ventilation.			
6.2. Environmental precautions				
	Advise local authorities if large spills cannot be contained.			
6.3. Methods and material for co	ontainment and cleaning up			
	Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water.			
6.4. Reference to other sections				
	See section 2, 7, 8, 13 for further information.			
SECTION 7: Handling and s	torage			
7.1. Precautions for safe handling	ng			
	Avoid contact with eyes and skin. Do not breathe vapours or spray mist. Adopt best Manual Handling considerations when handling, carrying and dispensing.			
7.2. Conditions for safe storage,	including any incompatibilities			
	Store in a cool, dry area. Keep container tightly closed. Store in original container. Keep away from combustible material. Avoid contact with oxidising agents., Avoid exposure to high temperatures or			

direct sunlight., Store away from the following materials: Reducing agents. Alkalis. Metal or metallic

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7.2. Conditions for safe storage,	including any incompatibilities	
	solid. Acetone. Organic compounds, Keep container materials: Stainless steel. Alumi	away from combustible material. Acids. Suitable nium. Polyethylene.
7.3. Specific end use(s)		
	Silver stabilised Hydrogen Peroxide.	
Suitable packaging		
	Plastic containers.	
SECTION 8: Exposure contr	ols/personal protection	
8.1. Control parameters	· ·	
on control parameters		
	Occupational exposure controls.	
8.1.1. Exposure Limit Values		
Hydrogen Peroxide <50%	WEL 8-hr limit ppm: 1	WEL 8-hr limit mg/m3: 1.4
(Hydrogen peroxide)		-
	WEL 15 min limit ppm: 2	WEL 15 min limit mg/m3: 2.8
	WEL 8-hr limit mg/m3 total  - inhalable dust:	WEL 15 min limit mg/m3 total - inhalable dust:
	WEL 8-hr limit mg/m3 total -	WEL 15 min limit mg/m3 total -
	respirable dust:	respirable dust:
DNEL Davised no effect level		
DNEL: Derived no-effect level.		
Exposure Pattern - Workers		
Hydrogen Peroxide <50%	Acute inhalation - Local effects 3 mg/m³	
	<b>Long-term - inhalation - Local</b> 1.4 mg/m <sup>3</sup>	
	effects	
Exposure Pattern - General pop	ulation	
Hydrogen Peroxide <50%	Acute inhalation - Local effects 1.93 mg/m³	
	Long-term - inhalation - Local 0.21 mg/m³	
	effects	
8.2. Exposure controls		
	Adopt best Manual Handling consideration	ns when handling, carrying and dispensing. Avoid contac
	-	with good industrial hygiene and safety practice. Use
	-	t. Wear suitable protective clothing and eye/face
	protection.	
8.2.1. Appropriate engineering	Provide exhaust ventilation or other engine	eering controls to keep the airborne concentrations of
controls	-	limit value. Ensure eyewash stations and safety
	showers are close to the workstation locat	
Eye / face protection		ctive equipment for eye and face protection should
		Eyewear complying with an approved standard should be ontact is possible. The following protection should be
		sonal protective equipment for eye and face protection
	should comply with European Standard El	
Skin protection -		nands against chemicals depending on the concentration
Handprotection		and specific to place of work. For special applications,
		chemicals of the aforementioned protective gloves with
	the glove manufacturer.	

Wear suitable protective clothing. Emergency safety showers should be available in the immediate

Skin protection - Other

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#### 8.2. Exposure controls

Respiratory protection

No personal respiratory protective equipment normally required. In case of insufficient ventilation wear suitable respiratory equipment. Respirator with ABEK filter EN 136/140/141/145/143/149.

Prevent further leakage or spillage if safe to do so.

# SECTION 9: Physical and chemical properties

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

Appearance	Liquid
Colour	Colourless
Odour	Characteristic
Initial boiling point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	1.18 - 1.196
Partition coefficient	No data available
Autoignition temperature	No data available
Viscosity	< 100 centipoise
Explosive properties	No data available
Oxidising properties	No data available
Odour threshold	No data available
рН	0.95 - 1.05
Melting point	No data available
Solubility	Soluble in water

#### 9.2. Other information

Conductivity	No data available
Surface tension	No data available
Gas group	No data available
Benzene Content	No data available
Lead content	No data available
VOC (Volatile organic	
compounds)	

### SECTION 10: Stability and reactivity

10	0.	1	Re	a	cti	vitv	/

	Stable under normal conditions. No specific reactivity hazards associated with this product.			
10.2. Chemical stability				
	Stable under normal conditions. No particular stability concerns.			
10.3. Possibility of hazardous reactions				
	may detonate when in mixing with organic substances and under certain conditions contact with metals and its salts may result in catalyzed decomposition 7., Heavy metals and their salts Copper. Chromium. Nickel. Lead. Iron. Dusty powder. Kerosene.			
10.4. Conditions to avoid				
	Avoid sparks, flames, heat and sources of ignition. Avoid storing in direct Sun Light. Protect from light, including direct sun rays. Store at moderate temperatures in a dry well ventilated area.			

Keep away from combustible material. Strong acids. Strong bases. Strong oxidising agents. Strong reducing agents. Metal or metallic solid. Acetone. Organic compounds.

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10.6. Hazardous decomposition products			
	Oxygen.		
SECTION 11: Toxicological i	nformation		
11.1. Information on toxicologica	al effects		
	This mixture has not been tested as a whole for health effects. The health effects have been		
	calculated using the methods outlined in Regulation (EC) No 1272/2008 (CLP).		
Acute toxicity	Acute Tox. 4: H302 - Harmful if swallowed.		
	Oral ATE = 431.4422 mg/kg. Inhalation - Vapours ATE = 11.0113 mg/l.		
Skin corrosion/irritation	Skin Irrit. 2: H315 - Causes skin irritation.		
Serious eye damage/irritation	Eye Dam. 1: H318 - Causes serious eye damage.		
Respiratory or skin	based on available data the classification criteria are not met.		
sensitisation	based on available data the stassification officina are not met.		
Germ cell mutagenicity	based on available data the classification criteria are not met.		
Carcinogenicity	based on available data the classification criteria are not met.		
Reproductive toxicity	based on available data the classification criteria are not met.		
STOT-single exposure	STOT SE 3: H335 - May cause respiratory irritation.		
STOT-repeated exposure	based on available data the classification criteria are not met.		
Aspiration hazard	based on available data the classification criteria are not met.		
Repeated or prolonged	based on available data the classification criteria are not met.		
exposure			
11.1.2. Mixtures			
	No data available.		
11.1.3. Hazard Information			
	No data available.		
11.1.4. Toxicological Information	1		
Hydrogen Peroxide <50%	Oral Rat LD50: 431 mg/kg Dermal Rabbit LD50: 6440 mg/kg		
	Inhalation Rat LC50/4 h: 11.0 mg/l		
SECTION 12: Ecological info	ormation		
12.1. Toxicity			
	No data available		
12.2. Persistence and degradab	ility		
	Substance biodegrades at a moderate rate and inherently biodegradable according to the OECD		
	guide lines.		
12.3. Bioaccumulative potential			
	The product is not bioaccumulating.		
Partition coefficient			
	Silvenox No data available Hydrogen Peroxide <50% -1.57 log P		
12.4. Mobility in soil			
12.7. WODING III SOII	This product is calluble in water		
40 F. Deculto of DDT and a D. D.	This product is soluble in water.		
12.5. Results of PBT and vPvB assessment			
12.5. Results OF FBT and VFVB a			
12.6. Other adverse effects	This mixture is not classified as PBT or vPvB according to current EU criteria.		

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12.6. Other adverse effects		
	No data available.	
SECTION 13: Disposal cons	siderations	
13.1. Waste treatment methods		
	Dispose of waste and residues in accordance with local authority requirements.	
General information		
	Waste is classified as hazardous waste. Do not puncture or incinerate, even when empty.	
Disposal of packaging		
	Do NOT reuse empty containers. Empty containers can be sent to landfill after cleaning, if in compliance with local and national regulations.	
SECTION 14: Transport info	ormation	
Hazard pictograms		
	5.1	
14.1. UN number		
	UN2014	
14.2. UN proper shipping name	·	
	HYDROGEN PEROXIDE, AQUEOUS SOLUTION	
14.3. Transport hazard class(es	;)	
ADR/RID	5.1	
Subsidiary risk	8	
IMDG	5.1	
Subsidiary risk	8	
IATA	5.1	
Subsidiary risk	8	
14.4. Packing group		
Packing group	П	
14.5. Environmental hazards		
Environmental hazards	No	
Marine pollutant	No	
14.6. Special precautions for us	er er	
	No additional special precautions.	
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code		
	Not applicable.	
ADR/RID		
Hazard ID	58	
Tunnel Category	(E)	
IMDG	•	
EmS Code	F-H S-Q	
IATA	•	

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IATA		
Packing Instruction (Cargo)	FORBIDDEN	
Maximum quantity	FORBIDDEN	
Packing Instruction	FORBIDDEN	
(Passenger)		
Maximum quantity	FORBIDDEN	

#### SECTION 15: Regulatory information

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

#### Regulations

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), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

#### 15.2. Chemical safety assessment

No information available

#### **SECTION 16: Other information**

#### Other information

Data sources	Classification and Procedure used to derive the classification for mixtures according to Regulation
	(EC) No. 1272/2008, as retained and amended in UK law.
	Acute Tox. 4: H302 - Harmful if swallowed Calculation Method, See section 11 for ATE data.
	Skin Irrit. 2: H315 - Causes skin irritation Calculation Method.
	Eye Dam. 1: H318 - Causes serious eye damage Calculation Method.
	STOT SE 3: H335 - May cause respiratory irritation Calculation Method.
Text of Hazard Statements in	Acute Tox. 4: H302+H332 - Harmful if swallowed or if inhaled
Section 3	Skin Irrit. 2: H315 - Causes skin irritation.
	Eye Dam. 1: H318 - Causes serious eye damage.
	STOT SE 3: H335 - May cause respiratory irritation.
	Met. Corr. 1: H290 - May be corrosive to metals.
	Aquatic Acute 1: H400 - Very toxic to aquatic life.
	Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects

#### **Further information**

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This 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 other process.