

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Oxygenon® - S**

Revision date: 06.03.2017

Product code: ANTI034

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Oxygenon® - S

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

Disinfectant

For professional use.

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

Company name:	ANTISEPTICA Dr. Hans Joachim Molitor GmbH		
Street:	Carl-Friedrich-Gauß-Straße 7		
Place:	D-50259 Pulheim/Brauweiler		
Telephone:	++49 (0)2234 / 98466-0	Telefax:	++49 (0)2234 / 98466-11
e-mail:	sdb@antiseptica.com		
Contact person:	Scientific Technical Department	Telephone:	++49 (0)2234 / 98466-27
e-mail:	sdb@antiseptica.com		
Internet:	www.antiseptica.com		

**1.4. Emergency telephone****number:**Giftinformationszentrum NORD Universität Göttingen, giznord@giz-nord.de  
Telephone: ++49 (0)551 / 1 92 40**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Acute toxicity: Acute Tox. 4

Skin corrosion/irritation: Skin Corr. 1

Serious eye damage/eye irritation: Eye Dam. 1

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Harmful if swallowed.

Causes severe skin burns and eye damage.

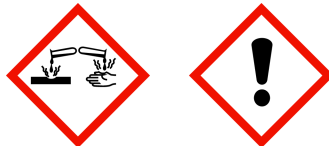
Causes serious eye damage.

Harmful to aquatic life with long lasting effects.

**2.2. Label elements****Regulation (EC) No. 1272/2008****Hazard components for labelling**

Penta potassium bis (peroxymonosulphate) bis (sulfate)

Reaction product of benzenesulfonic acid, 4-C10-13 sec-alkyl derivatives and benzenesulfonic acid, 4-methyl with sodium hydroxide, Alcohols, C9-11-iso-, C10-rich, ethoxylated

**Signal word:** Danger**Pictograms:****Hazard statements**

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H412	Harmful to aquatic life with long lasting effects.

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**Precautionary statements**

- P260 Do not breathe dust.  
P280 Wear protective gloves and eye protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
P314 Get medical advice/attention if you feel unwell.  
P273 Avoid release to the environment.

**2.3. Other hazards**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
70693-62-8	Penta potassium bis (peroxymonosulphate) bis (sulfate)			30 - < 100 %
	274-778-7		01-2119485567-22	
	Acute Tox. 4, Skin Corr. 1B, Aquatic Chronic 3; H302 H314 H412			
532-32-1	sodium benzoate			5 - < 10 %
	208-534-8		01-2119460683-35	
	Eye Irrit. 2; H319			
15763-76-5	Sodium cumenesulfonate			1 - < 5 %
	239-854-6		01-2119489411-37	
	Eye Irrit. 2; H319			
77-92-9	citric acid			1 - < 5 %
	201-069-1		01-2119457026-42	
	Eye Irrit. 2; H319			
	Reaction product of benzenesulfonic acid, 4-C10-13 sec-alkyl derivatives and benzenesulfonic acid, 4-methyl with sodium hydroxide			1 - < 5 %
	932-051-8		01-2119565112-48	
	Skin Irrit. 2, Eye Dam. 1; H315 H318			
78330-20-8	Alcohols, C9-11-iso-, C10-rich, ethoxylated			1 - < 5 %
	271-234-0			
	Acute Tox. 4, Eye Dam. 1; H302 H318			

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

**Labelling for contents according to Regulation (EC) No 648/2004**

disinfectants, 5 % - &lt; 15 % anionic surfactants, &lt; 5 % non-ionic surfactants, perfumes.

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Call a physician immediately. If medical advice is needed, have product container or label at hand.

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**After inhalation**

Provide fresh air.

**After contact with skin**

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.

**After contact with eyes**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

**After ingestion**

Rinse mouth immediately and drink plenty of water.

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

No information available.

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

No information available.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**Carbon dioxide (CO<sub>2</sub>)

Extinguishing powder

Water spray jet

Foam

**5.2. Special hazards arising from the substance or mixture**In case of fire dangerous vapors / gases can be released Nitrogen oxides (NO<sub>x</sub>); Carbon monoxide; Carbon dioxide (CO<sub>2</sub>).**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus. Use water spray jet to protect personnel and to cool endangered containers.

**Additional information**

Do not allow run-off from fire-fighting to enter drains or water courses.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Avoid dust formation. Wear personal protection equipment. Remove persons to safety.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

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

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

**6.4. Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Use only in well-ventilated areas. Avoid dust formation. Keep container tightly closed. To prepare a dilution, always first fill in the water and then add the product.

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**Further information on handling**

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs. Remove contaminated, saturated clothing immediately. Avoid contact with eyes.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep only in the original container in a cool, well-ventilated place. Avoid: frost.  
Keep out of the reach of children. Keep locked up and out of reach of children.

**Advice on storage compatibility**

Keep away from food, drink and animal feedingstuffs.

**Further information on storage conditions**

Protect from sunlight.

**7.3. Specific end use(s)**

We have no knowledge of specific end uses.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****DNEL/DMEL values**

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
70693-62-8	Penta potassium bis (peroxymonosulphate) bis (sulfate)			
Worker DNEL, acute		dermal	systemic	80 mg/kg bw/day
Worker DNEL, acute		dermal	local	0.449 mg/cm²
Consumer DNEL, long-term		inhalation	systemic	0.14 mg/m³
Consumer DNEL, acute		inhalation	systemic	25 mg/m³
Consumer DNEL, long-term		inhalation	local	0.14 mg/m³
Consumer DNEL, acute		inhalation	local	25 mg/m³
Consumer DNEL, long-term		dermal	systemic	10 mg/kg bw/day
Consumer DNEL, acute		dermal	systemic	40 mg/kg bw/day
Consumer DNEL, acute		dermal	local	0.22 mg/cm²
Consumer DNEL, acute		oral	systemic	10 mg/kg bw/day

**PNEC values**

CAS No	Substance	
Environmental compartment	Value	
70693-62-8	Penta potassium bis (peroxymonosulphate) bis (sulfate)	
Freshwater	0.022 mg/l	
Marine water	0.0022 mg/l	
Marine water (intermittent releases)	0.0109 mg/l	
Freshwater sediment	0.0782 mg/kg	
Marine sediment	0.00796 mg/l	
Micro-organisms in sewage treatment plants (STP)	108 mg/l	
Soil	1 mg/kg	

**8.2. Exposure controls****Protective and hygiene measures**

Keep away from food, drink and animal feedingstuffs. Remove contaminated, saturated clothing immediately.

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Wash hands before breaks and after work. Avoid contact with eyes and skin.

**Eye/face protection**

When handling the concentrated product (for example, transferring) use tight fitting eye protection. (goggles)

**Hand protection**

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. Chemical protective gloves must specifically chosen for each workplace depending on the concentration and amount of hazardous substances, temperature and contact time. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Recommendation: NBR (Nitrile rubber), Butyl caoutchouc (butyl rubber)

To prevent skin irritation in the professional field - regardless of actual contact with disinfectants - it is recommended to use: • a fast absorbing skin care cream in between if necessary. • a greasy cream after washing at the end of work or before breaks.

**Skin protection**

Wear suitable protective clothing.

**Respiratory protection**

none - Avoid dust formation.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state:	Powder	
Colour:	white	
Odour:	characteristic	
pH-Value:		not applicable

**Changes in the physical state**

Melting point:	not determined
Initial boiling point and boiling range:	not applicable
Flash point:	not applicable
Lower explosion limits:	not determined
Upper explosion limits:	not determined
Ignition temperature:	1010 °C
Decomposition temperature:	not determined
Vapour pressure:	not applicable
Density:	not determined
Bulk density:	850 - 1300 kg/m³
Water solubility:	easily soluble.

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions.

**10.2. Chemical stability**

The product is chemically stable under recommended conditions of storage, use and temperature.  
Decomposition takes place from temperatures above: 60°C.

**10.3. Possibility of hazardous reactions**

No hazardous reaction when handled and stored according to provisions.

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**10.4. Conditions to avoid**

Safe handling: see section 7

**10.5. Incompatible materials**

Incompatible materials: Strong acid - Strong alkali - Reducing agent.

**10.6. Hazardous decomposition products**

The product is chemically stable under recommended conditions of storage, use and temperature. Thermal decomposition can lead to the escape of irritating gases and vapours. (Sulphur dioxide (SO<sub>2</sub>), Sulphur trioxide fog (SO<sub>3</sub>))

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****ATEmix calculated**

ATE (oral) 795.2 mg/kg

**Acute toxicity**

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
70693-62-8	Penta potassium bis (peroxymonosulphate) bis (sulfate)				
	oral	LD50 500 mg/kg	Rat		
	dermal	LD50 >2000 mg/kg	Rat		OECD 402
	inhalative (4 h) aerosol	LC50 >5 mg/l	Rat		
15763-76-5	Sodium cumenesulfonate				
	oral	LD50 >2000 mg/kg	Rat		OECD 401
	dermal	LD50 >2000 mg/kg	Rat		
77-92-9	citric acid				
	oral	LD50 5400 mg/kg	Maus		
	dermal	LD50 > 2000 mg/kg	Ratte		
78330-20-8	Alcohols, C9-11-iso-, C10-rich, ethoxylated				
	oral	LD50 200-2000 mg/kg	Rat		

**Irritation and corrosivity**

Penta potassium bis (peroxymonosulphate) bis (sulfate):

In case of skin contact: OECD 404 Rabbit 3 min - 1 h: corrosive

In case of eye contact: OECD 405 Rabbit - Causes serious eye damage.

**SECTION 12: Ecological information****12.1. Toxicity**

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
70693-62-8	Penta potassium bis (peroxymonosulphate) bis (sulfate)					
	Acute fish toxicity	LC50	53 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	OECD 203
	Acute algae toxicity	ErC50	>1 mg/l	96 h	Pseudokirchneriella subcapitata	OECD 201
	Acute crustacea toxicity	EC50	3.5 mg/l	48 h	Daphnia magna (Big water flea)	OECD 202
	Fish toxicity	NOEC	0.222 mg/l	37 d	Cyprinodon variegatus	
	Crustacea toxicity	NOEC	0.267 mg/l	24 d	Daphnia	
	Acute bacteria toxicity	(179 mg/l)			Pseudomonas putida	
77-92-9	citric acid					
	Acute fish toxicity	LC50	440 mg/l	96 h	Leuciscus idus melanotus	
	Acute crustacea toxicity	EC50	1535 mg/l	48 h	Daphnia magna	

**12.2. Persistence and degradability**

No information available.

**12.3. Bioaccumulative potential**

There are no data available on the mixture itself.

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
77-92-9	citric acid	-0,12

**12.4. Mobility in soil**

The product has not been tested.

**12.5. Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**12.6. Other adverse effects**

slightly hazardous to water (WGK 1)

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Advice on disposal**

Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

**Waste disposal number of waste from residues/unused products**

070699 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; wastes not otherwise specified

**Waste disposal number of contaminated packaging**

150102 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); plastic packaging

**Contaminated packaging**

Dispose of waste according to applicable legislation.

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**SECTION 14: Transport information****Land transport (ADR/RID)**

**14.1. UN number:** UN 1759  
**14.2. UN proper shipping name:** CORROSIVE SOLID, N.O.S. (Penta potassium bis (peroxymonosulphate) bis (sulfate))  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** III  
Hazard label: 8



Classification code: C10  
Special Provisions: 274  
Limited quantity: 5 kg  
Excepted quantity: E1  
Transport category: 3  
Hazard No: 80  
Tunnel restriction code: E

**Marine transport (IMDG)**

**14.1. UN number:** UN 1759  
**14.2. UN proper shipping name:** CORROSIVE SOLID, N.O.S. (Potassium monopersulfate)  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** III  
Hazard label: 8



Special Provisions: 223, 274  
Limited quantity: 5 kg  
Excepted quantity: E1  
EmS: F-A, S-B

**Air transport (ICAO-TI/IATA-DGR)**

**14.1. UN number:** UN 1759  
**14.2. UN proper shipping name:** CORROSIVE SOLID, N.O.S. (Potassium monopersulfate)  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** III  
Hazard label: 8



Special Provisions: A3 A803  
Limited quantity Passenger: 5 kg  
Passenger LQ: Y845  
Excepted quantity: E1  
IATA-packing instructions - Passenger: 860  
IATA-max. quantity - Passenger: 25 kg  
IATA-packing instructions - Cargo: 864



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IATA-max. quantity - Cargo:

100 kg

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

To follow:

Regulation (EC) No. 648/2004 (Detergents regulation)

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

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work

**National regulatory information**

Employment restrictions:

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water contaminating class (D):

1 - slightly water contaminating

**SECTION 16: Other information****Changes**

This data sheet contains changes from the previous version in section(s): 1,4,5,7,8,10,11,12,15.

**Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]**

Classification	Classification procedure
Acute Tox. 4; H302	Calculation method
Skin Corr. 1; H314	
Eye Dam. 1; H318	Calculation method
Aquatic Chronic 3; H412	Calculation method

**Relevant H and EUH statements (number and full text)**

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

**Further Information**

The data contained in this safety data sheet is based on our current knowledge and experience and describe the product with regard to safety requirements. The information should not be regarded in any way as a description of the product's properties (product specification). Agreed characteristics nor the suitability of the product for a specific purpose can not be derived from the information in the SDS. We will advise you as to whether and under what circumstances, the preparation is suitable for a defined purpose. Proprietary rights and existing laws and regulations must be respected by the receiver of our product.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*