

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) revision 18.03.2014 (GB) Version 4.8 SpaTime Active oxygen granular / Ossigeno Attivo granulare 144

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

1.1. Product identifier	
Name of product	SpaTime Active oxygen granular / Ossigeno Attivo granulare 144
Name of substance	Pentapotassium-bis(peroxymonosulphate)-bis(sulphate)
EC No	274-778-7
CAS No	70693-62-8
1.2. Relevant identified uses of the substanc Recommended intended purpose(s) Product for disinfection and oxidation of pool wa	-
1.3. Details of the supplier of the safety data	sheet
Manufacturer/distributor	BAYROL Deutschland GmbH
	Robert-Koch-Str. 4, D-82152 Planegg
	Phone +49 (0) 89 85701-0, Fax +49 (0) 89 85701-276
	Phone +49 (0) 89 85701-0, Fax +49 (0) 89 85701-276 E-Mail bayrol@bayrol.de
Advice	Phone +49 (0) 89 85701-0, Fax +49 (0) 89 85701-276
Advice	Phone +49 (0) 89 85701-0, Fax +49 (0) 89 85701-276 E-Mail bayrol@bayrol.de Internet www.bayrol.de
Advice	Phone +49 (0) 89 85701-0, Fax +49 (0) 89 85701-276 E-Mail bayrol@bayrol.de
Advice 1.4. Emergency telephone number	Phone +49 (0) 89 85701-0, Fax +49 (0) 89 85701-276 E-Mail bayrol@bayrol.de Internet www.bayrol.de E-mail (competent person):
Advice 1.4. Emergency telephone number Emergency advice	Phone +49 (0) 89 85701-0, Fax +49 (0) 89 85701-276 E-Mail bayrol@bayrol.de Internet www.bayrol.de E-mail (competent person):

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to 67/548/EEC or 1999/45/EC

Xn; R22 C; R34 R52	
34 Causes	ul if swallowed. s burns. ul to aquatic organisms.
Classification according to	o Regulation (EC) No 1272/2008 [CLP/GHS]
Hazard classes and Hazard categories	Hazard Statements Classification procedure
Acute Tox. 4 Skin Corr. 1B Aquatic Chronic 4	H302 H314
	ul if swallowed. s severe skin burns and eye damage.
H412 Harmfu	I to aquatic life with long lasting effects.



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2.2. Label elements Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]



GHS07

Signal word Danger

Hazard Statements

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

Precautionary Statements

P102	Keep out of reach of children.
P220 P280	Keep/Store away from combustible materials. Wear protective gloves/protective clothing/eye protection/face protection.
P302 + P352 P305 + P351 + P338 P309 + P311	IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minuts. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

Hazardous ingredients for labeling

Pentapotassium-bis(peroxymonosulphate)-bis(sulphate)

2.3. Other hazards

Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

SECTION 3: Composition/ information on ingredients

3.1. Substances

CAS No 70693-62-8 EC No 274-778-7

Pentapotassium-bis(peroxymonosulphate)-bis(sulphate)

3.2. Mixtures not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated soaked clothing immediately and dispose it safely. Symptoms of poisoning may not occur for hours, therefore medical supervision for at least 48 hours necessary. Adhere to personal protective measures when giving first aid.



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In case of inhalation

Remove the casualty into fresh air and keep him immobile. In the event of symptoms refer for medical treatment.

In case of skin contact

In case of contact with skin wash off immediately with plenty of water. Refer for medical treatment.

In case of eye contact

Eye rinsing with water carefully while protecting unhurt eye. Refer to medical treatment.

In case of ingestion

Do not induce vomiting. Call for a doctor immediately. Rinse out mouth and give plenty of water to drink.

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 Treatment (Advice to doctor)

Treat symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Product does not burn, fire-extinguishing activities according to surrounding.

5.2. Special hazards arising from the substance or mixture

In case of fire formation of dangerous gases possible.

5.3. Advice for firefighters

Special protective equipment for fire-fighters Use breathing apparatus with independent air supply. Wear full protective clothing.

Additional information

Cool endangered containers with water spray jet. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No information available.

For non-emergency personnel

Avoid dust formation. Use personal protective clothing.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater.



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6.3. Methods and material for containment and cleaning up

Flush away residues with water. Take up mechanically and send for disposal.

6.4. Reference to other sections

Safe handling: see section 7 Disposal: see section 13 Personal protection equipment: see section 8 Emergency telephone number: see section 1

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling No special measures necessary if used correctly.

Do not return residues to the storage containers.

General protective measures

Avoid contact with eyes and skin Do not inhale dust.

Hygiene measures

At work do not eat, drink and smoke. Keep away from food and drink. Wash hands before breaks and after work.

Advice on protection against fire and explosion

The product is not combustible, but supports burning.

7.2. Conditions for safe storage, including any incompatibilities Requirements for storage rooms and vessels Keep in closed original container.

Advice on storage compatibility

Do not store with combustible materials. Do not store together with food.

Further information on storage conditions

Protect from direct solar radiation. Keep container dry, tightly closed and store at cool place. Protect from heat/overheating.

Information on storage stability

Storage time: 5 years.

7.3. Specific end use(s) Recommendation(s) for intended use See section 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No information available.

8.2. Exposure controls Respiratory protection

In case of dust formation wear micro dust mask.



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Hand protection chemical-resistant gloves Suitable materials (recommended: protection index 6, >480 minutes permeation time according to EN 374)

Nitrile-butadiene rubber (NBR) - 0.4 mm layer thickness Butyl rubber (butyl) - 0.7mm layer thickness In view of the many different types, the manufacturers' directions for use must be followed

Eye protection

Safety goggles

Other protection measures

Light protective clothing.

SECTION 9: Physical and chemical properties

•	ysical and chemical properties Colour	Odour
Appearance	Colour	Odour
Iranules	white	odourless

No information available.

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value	2,1	20 °C	30 g/l		
Boiling temperature / boiling range	No information	available.			
decomposition point	> 80 °C				
Flash point	not applicable				
Vapourisation rate	No information	available.			
Flammable (solid)	No information	available.			
Flammability (gas)	No information	available.			
Ignition temperature	No information	available.			
Self ignition temperature	No information	available.			
Lower explosion limit	No information	available.			
Upper explosion limit	No information	available.			
Vapour pressure	< 0,0017 Pa	25 °C			
Relative density	No information	available.			
Bulk density	ca. 1100 kg/m3				



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	Value	Tama anatura	-	Mathad	Demerle
	Value	Temperature	at	Method	Remark
Vapour density	No information	n available.			
Solubility in water	ca. 300 g/l	20 °C			
Solubility/other	No information	n available.			
Partition coefficient n- octanol/water (log P O/W)	No information	n available.			
Decomposition temperature	No information	n available.			
Viscosity	No information	n available.			
Oxidising properties No information available.					
Explosive properties No information available.					
9.2. Other information No information available.					

SECTION 10: Stability and reactivity

10.1. Reactivity

Thermal decomposition can lead to the escape of irritating gases and vapours.

10.2. Chemical stability

No information available.

10.3. Possibility of hazardous reactions

Reactions with combustible substances. Reactions with impurities. Reactions with reducing agents. Reactions with alkalies.

10.4. Conditions to avoid No information available.

10.5. Incompatible materials

Materials to avoid Alkali (lye) Acid, concentrated Reducing agent

10.6. Hazardous decomposition products

Sulphur dioxide Oxygen

Thermal decomposition

Remark No decomposition if used as directed.



SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity/Irritability/Sensitization

	Value/Validation	Species	Method	Remark
LD50 acute oral	500 mg/kg	rat		
LD50 acute dermal	2000 mg/kg	rabbit		
LC50 acute inhalation	1,85 mg/l ()	rat		
Irritability skin	corrosive			
Irritability eye	risk of strong eye injuries			

Subacute Toxicity - Carcinogenicity

	Value	Species	Method	Validation
Mutagenicity	No information available.			
Reproduction- Toxicity	No information available.			
Carcinogenicity	No information available.			

Experiences made from practice

After swallowing: burns in mouth, throat, oesophagus and gastrointestinal tract. Risk of perforation in the oesophagus and stomach. Irritates mucous membranes.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicological effects					
	Value	Species	Method	Validation	
Fish	LC50 32 - 56 mg/l (96 h)	Brachidanio rerio			
Daphnia	EC50 5,3 g/m3 (24 h)	Daphnia magna			
12.2. Persist Physico-che	ence and degradability				
degradability		ble.			

12.3. Bioaccumulative potential



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No information available.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6. Other adverse effects

General regulation

In sewage the product decomposes into potassium bisulphate and oxygen

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recommendations for the product

Remove in accordance with local official regulations. There are no harmonised regulations on the disposal of chemicals in the member states of the EU. In Germany the Recycling and Waste Management Act (KrWG) stipulates recycling as a requirement.

Recommendations for packaging

Uncontaminated packaging may be taken for recycling.

Recommended cleansing agent

Water

SECTION 14: Transport information

	ADR/RID	IMDG	IATA-DGR
14.1. UN number	3260	3260	3260
14.2. UN proper shipping name	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O. S. (Pentapotassium- bis(peroxymonosulphate)- bis(sulphate))	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Pentapotassium- bis(peroxymonosulphate)- bis(sulphate))	Corrosive solid, acidic, inorganic, n.o.s. (Pentapotassium- bis(peroxymonosulphate)- bis(sulphate))
14.3. Transport hazard class(es)	8	8	8
14.4. Packing group	II	II	II
14.5. Environmental hazards	No	No	No

14.6. Special precautions for user No information available.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No information available.

Land and inland navigation transport ADR/RID Hazard label(s) 8 tunnel restriction code E Classification code C2



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SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture Other regulations (EU)

Please note:

Observe regulation 98/24/EC for employee health protection against the threat of chemical substances in the workplace. Biocide directive (98/8/EC).

15.2. Chemical Safety Assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Recommended uses and restrictions

National and local regulations concerning chemicals shall be observed. Biozide sicher verwenden. Vor Gebrauch stets Kennzeichnung und Produktinformation lesen.

Further information

Refer to product information paper.

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 4.7

Sources of key data used

Results of own researches and examinations Literature informations Toxicity studies, NIOSH-Tox-Data National legislation and regulation