

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

1.1. Product identifier

Name of product	SpaTime Active oxygen granules / 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 substance or mixture and uses advised against

Recommended intended purpose(s)

Product for disinfection and oxidation of pool water

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
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Advice

E-mail (competent person):
ASchwarzenboeck@bayrol.de

1.4. Emergency telephone number

Emergency advice	Giftnotruf München (oder jedes andere Giftinformationszentrum) Phone +49 (0) 89 19240
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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

R-phrases

22	Harmful if swallowed.
34	Causes burns.
52	Harmful to aquatic organisms.

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

Hazard classes and Hazard categories	Hazard Statements	Classification procedure
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Acute Tox. 4	H302
Skin Corr. 1B	H314
Aquatic Chronic 3	H412

Hazard Statements

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

2.2. Label elements

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



GHS05



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

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P302 + P352 IF ON SKIN: Wash with plenty of water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P311 IF exposed or concerned: Call a POISON CENTER/doctor.
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.

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

Rinse immediately with plenty of water for at least 15 minutes.
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

Physician's information / possible dangers

risk of strong eye injuries

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

For non-emergency personnel

Avoid dust formation.

Use personal protective clothing.

6.2. Environmental precautions

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

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

Avoid the formation of dust.

Do not return residues to the storage containers.

Take the usual precautions when handling with chemicals.

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.

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

EN 166: 2001

Other protection measures

Light protective clothing.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

granules

Colour

white

Odour

odourless

Odour threshold

not determined

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value	2,1	20 °C	30 g/l		
Boiling temperature / boiling range	not determined				
decomposition point	> 80 °C				
Flash point	not applicable				
Vapourisation rate	not determined				
Flammable (solid)	not determined				
Flammability (gas)	not determined				

	Value	Temperature	at	Method	Remark
Ignition temperature	not determined				
Self ignition temperature	not determined				
Lower explosion limit	not determined				
Upper explosion limit	not determined				
Vapour pressure	< 0,0017 Pa	25 °C			
Relative density	not determined				
Bulk density	ca. 1100 kg/m ³				
Vapour density	not determined				
Solubility in water	ca. 300 g/l	20 °C			
Solubility/other	not determined				
Partition coefficient n-octanol/water (log P O/W)	not determined				
Decomposition temperature	not determined				
Viscosity	not determined				

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. Persistence and degradability

Physico-chemical degradability

Product is biodegradable.

12.3. Bioaccumulative potential

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

Untaminated 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))

	ADR/RID	IMDG	IATA-DGR
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

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: 6.9

Sources of key data used

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