

## Safety data sheet

Issue date: 01-12-2017  
Version: 01.00/GBR

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

#### 1.1. Product identifier

Trade name: Combitabs

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

Recommended uses: Disinfection agent  
Use biocides safely. Always read the label and product information before use. This safety data sheet contains general information concerning the chemical, but specific instructions and guidelines are indicated on the product label and in the instructions for use.

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

Supplier: Swim & Fun Scandinavia ApS  
Ledreborg Allé 128K  
4000 Roskilde  
Denmark  
Tel: +45 70226856  
Fax: +45 70226859  
Email: info@swim-fun.dk

#### 1.4. Emergency telephone number

0870 600 6266 (UK only) Only available to health professionals.

### SECTION 2: Hazards identification

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

CLP-classification (Regulation (EC) No 1272/2008): Acute tox. 4;H302 Skin Corr. 1B; H314 Aquatic Chronic 3; H412 Eye Dam. 1; H318

*Please see section 16 for the full text of H-phrases.*

Most serious harmful effects: Harmful if swallowed. Causes severe skin burns and eye damage. Harmful to aquatic life with long lasting effects. Causes serious eye damage.

#### 2.2. Label elements



Signal word:

Danger

Contains:

pentapotassium bis(peroxymonosulphate) bis(sulphate) 50-100g/100g  
Harmful if swallowed.(H302)

H-phrases:	Causes severe skin burns and eye damage.(H314) Harmful to aquatic life with long lasting effects.(H412)
P-phrases:	If medical advice is needed, have product container or label at hand.(P101) Keep out of reach of children.(P102) Wear protective gloves/eye protection/face protection.(P280-høa) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.(P305/351/338) Immediately call a POISON CENTER/doctor.(P310-A) Store locked up.(P405) Dispose of contents/container in accordance with local regulation.(P501-A)
Supplemental information:	Contains dipotassium peroxodisulphate. May produce an allergic reaction.

### 2.3. Other hazards

The product does not contain any PBT or vPvB substances.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Registration number	CAS/EC Number	Substance	CLP-classification (Regulation (EC) No 1272/2008)	w/w%	Note
01-211948556 7-22-	70693-62-8-F 274-778-7	pentapotassium bis(peroxymonosulphate) bis(sulphate)	Skin Corr. 1B; H314 Acute Tox. 4; H302 Aquatic Chronic 3;H412	50-100	.
.	7727-21-1-B 231-781-8	dipotassium peroxodisulphate	Ox. Sol. 3;H272 Acute Tox. 4;H302 Eye Irrit. 2;H319 STOT SE 3;H335 Skin Irrit. 2;H315 Resp. Sens. 1;H334 Skin Sens. 1;H317 Aquatic Chronic 3;H412	<1	.
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Please see section 16 for the full text of H-phrases.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

Inhalation:	Seek fresh air. Seek medical advice in case of persistent discomfort.
Ingestion:	Wash out mouth thoroughly and drink 1-2 glasses of water in small sips. Do not induce vomiting. Immediately call a POISON CENTER or doctor/physician.
Skin:	Immediately remove contaminated clothing. Wash skin with soap and water. Seek medical advice in case of persistent discomfort.
Eyes:	Open eye wide, remove any contact lenses and flush immediately with water (preferably using eye wash equipment). Seek medical advice immediately. Continue flushing until medical attention is obtained.
Other information:	When obtaining medical advice, show the safety data sheet or label.

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

Harmful if swallowed. Inhalation of dust may cause irritation to the upper airways. Ingestion may cause caustic burning in mouth, oesophagus and stomach. Pains in mouth, throat and stomach. Difficulty swallowing, feeling unwell and vomiting of blood. Brown spots and burns may appear in and around the mouth. Has a caustic burning effect and causes burning pain, reddening, blistering and burning sores if it comes in contact with skin. Eye contact may result in deep caustic burns, pain, tearing and cramping of the eyelids. Risk of serious eye injury and loss of sight.

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

Treat symptoms. No special immediate treatment required. Ensure that medical personnel are aware of the material involved, and take precautions to protect themselves.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	Extinguish with powder, foam, carbon dioxide or water mist.
Unsuitable extinguishing media	Do not use water stream, as it may spread the fire.

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

The product decomposes when combusted and the following toxic gases can be formed:

Carbon monoxide and carbon dioxide.

**5.3. Advice for firefighters**

Wear Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit. Extinguishing water which has been in contact with the product may be corrosive. Move containers from danger area if it can be done without risk. Avoid inhalation of vapour and flue gases – seek fresh air.

**SECTION 6: Accidental release measures**

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

For non-emergency personnel: Wear safety goggles/face protection. Stay upwind/keep distance from source. Wear gloves. In case of insufficient ventilation, wear respiratory protective equipment.

For emergency responders: In addition to the above: Chemical protective suit equivalent to EN 943-2 is recommended.

**6.2. Environmental precautions**

Prevent spillage from entering drains and/or surface water.

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

Sweep up/collect spills for possible reuse or transfer to suitable waste containers. Wipe up minor spills with a damp cloth. Caution! Causes burns.

**6.4. Reference to other sections**

See section 8 for type of protective equipment. See section 13 for instructions on disposal.

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

Work under effective process ventilation (e.g. local exhaust ventilation). Running water and eye wash equipment must be available. Wash hands before breaks, before using restroom facilities, and at the end of work.

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

Store safely, out of reach of children and away from food, animal feeding stuffs, medicines, etc. Store locked up. Do not store with the following: Acids/ Reducing agents. Do not expose to heat (e.g. sunlight). Store in a cool, dry place.

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

None.

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

Occupational exposure limits:

Ingredient:	Exposure limit	Comments
Inhalable dust	- (8h), -(15m) ppm 10 (8h), - (15m) mg/m <sup>3</sup>	

Legal basis: EH40/2005 Workplace exposure limits. Last amended December 2011.

Measuring methods: Compliance with the stated occupational exposure limits may be checked by occupational hygiene measurements.

DNEL values: 70693-62-8-F: Workers: Dermal DNEL (acute/short-term exposure - systemic effects), 80 mg/kg bw/day, Assessment factor: -, Dose descriptor: , Most sensitive endpoint: . Dermal DNEL (acute/short-term exposure - local effects), 499 ng/m<sup>2</sup>, Assessment factor: -, Dose descriptor: , Most sensitive endpoint: . Dermal DNEL (long-term exposure - systemic effects), 20 mg/kg bw/day, Assessment factor: -, Dose descriptor: , Most sensitive endpoint: . Inhalation DNEL (acute/short-term exposure - systemic effects), 50 mg/m<sup>3</sup>, Assessment factor: -, Dose descriptor: , Most sensitive endpoint: . Inhalation DNEL (acute/short-term exposure - local effects), 50 mg/m<sup>3</sup>, Assessment factor: -, Dose descriptor: , Most sensitive endpoint: . Inhalation DNEL (long-term exposure - systemic effects), 0,28 mg/m<sup>3</sup>, Assessment factor: -, Dose descriptor: , Most sensitive endpoint: . Inhalation DNEL (long-term exposure - local effects), 0,28 mg/m<sup>3</sup>, Assessment factor: -, Dose descriptor: , Most sensitive endpoint: . General population: Oral DNEL (acute/short-term exposure - systemic effects), 10 mg/kg bw/day, Assessment factor: , Dose descriptor: , Most sensitive endpoint: . Oral DNEL (long-term exposure - systemic effects), 10 mg/kg bw/day, Assessment factor: , Dose descriptor: , Most sensitive endpoint: . Dermal DNEL (acute/short-term exposure - systemic effects), 80 mg/kg bw/day, Assessment factor: , Dose descriptor: , Most sensitive endpoint: . Dermal DNEL (acute/short-term exposure - local effects), 224 ng/m<sup>2</sup>, Assessment factor: , Dose descriptor: , Most sensitive endpoint: . Dermal DNEL (long-term exposure - systemic effects), 10 mg/kg

bw/day, Assessment factor: , Dose descriptor: , Most sensitive endpoint: . Inhalation DNEL (acute/short-term exposure - systemic effects), 25 mg/m<sup>3</sup>, Assessment factor: , Dose descriptor: , Most sensitive endpoint: . Inhalation DNEL (acute/short-term exposure - local effects), 25 mg/m<sup>3</sup>, Assessment factor: , Dose descriptor: , Most sensitive endpoint: . Inhalation DNEL (long-term exposure - systemic effects), 0,14 mg/m<sup>3</sup>, Assessment factor: , Dose descriptor: , Most sensitive endpoint: . Inhalation DNEL (long-term exposure - local effects), 0,14 mg/m<sup>3</sup>, Assessment factor: , Dose descriptor: , Most sensitive endpoint: .

PNEC values:

70693-62-8-F: PNEC soil 0,885 mg/kg, Assessment factor: , Extrapolation method: . PNEC aqua (freshwater) 0,022 mg/l, Assessment factor: , Extrapolation method: . PNEC aqua (marine water) 0,002 mg/l, Assessment factor: , Extrapolation method: . PNEC aqua (intermittent releases) 0,0109 mg/l, Assessment factor: , Extrapolation method: . PNEC sediment (freshwater) 0,017 mg/l, Assessment factor: , Extrapolation method: . PNEC sediment (marine water) 0,00174 mg/kg, Assessment factor: , Extrapolation method: . PNEC STP (wastewater-treatment facilities) 108 mg/l, Assessment factor: , Extrapolation method: .

## 8.2. Exposure controls

Appropriate engineering controls:	Wear the personal protective equipment specified below.
Personal protective equipment, eye/face protection:	Wear safety goggles/face protection. Eye protection must conform to EN 166.
Personal protective equipment, skin protection:	Wear plastic or rubber protective gloves. Breakthrough time has not been determined for the product. Change gloves often. Gloves must conform to EN 374.
Personal protective equipment, respiratory protection:	In case of insufficient ventilation, wear respiratory protective equipment with P2 filter. Respiratory protection must conform to one of the following standards: EN 136/140/145.
Environmental exposure controls:	Ensure compliance with local regulations for emissions.

## SECTION 9: Physical and chemical properties

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

State:	Solid substance
Colour:	White
Odour:	Characteristic
Odour threshold:	No data
pH (solution for use):	No data
pH (concentrate):	2,5 ( 20 °C)
Melting point/freezing point:	No data
Initial boiling point and boiling range:	No data
Flash point:	No data
Evaporation rate:	No data
Flammability (solid, gas):	No data
Upper/lower flammability limits:	No data
Upper/lower explosive limits:	No data
Vapour pressure:	No data
Vapour density:	No data
Relative density:	No data
Solubility:	Soluble in water
Partition coefficient n-octanol/water:	No data
Auto-ignition temperature:	Not spontaneously flammable
Decomposition temperature:	No data
Viscosity:	No data
Explosive properties:	Non-explosive
Oxidising properties:	No data

### 9.2. Other information

None.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reacts with the following: Acids.

### 10.2. Chemical stability

The product is stable when used in accordance with the supplier's directions.

### 10.3. Possibility of hazardous reactions

	None known.
<b>10.4. Conditions to avoid</b>	None known.
<b>10.5. Incompatible materials</b>	Avoid contact with the following: Acids.
<b>10.6. Hazardous decomposition products</b>	The product decomposes when combusted or heated to high temperatures and the following toxic gases can be formed: Carbon monoxide and carbon dioxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity - oral:	Harmful if swallowed. Test data are not available. 70693-62-8-F: Rat: LC50 = 500 mg/kg () 7727-21-1-B: Rat: LD50 = 1130 mg/l ()
Acute toxicity - dermal:	The product does not have to be classified. Test data are not available. 70693-62-8-F: Rabbit: LD50 = >2000 mg/kg () 7727-21-1-B: Rabbit: LD50 = >10000 mg/kg ()
Acute toxicity - inhalation:	The product does not have to be classified. Test data are not available. 70693-62-8-F: Rat, , : LC50 = >5 mg/l () 7727-21-1-B: Rat, , : LC50 = 10,7 mg/l ()
Skin corrosion/irritation:	Has a caustic burning effect and causes burning pain, reddening, blistering and burning sores if it comes in contact with skin. Test data are not available. 70693-62-8-F: Rabbit, , : Corrosive ()
Serious eye damage/eye irritation:	Eye contact may result in deep caustic burns, pain, tearing and cramping of the eyelids. Risk of serious eye injury and loss of sight. Test data are not available. 70693-62-8-F: Rabbit, , : ()
Respiratory sensitisation or skin sensitisation:	The product does not have to be classified. Test data are not available. 70693-62-8-F: Guinea pig, , : Non-sensitising ()
Germ cell mutagenicity:	The product does not have to be classified. Test data are not available. 70693-62-8-F: , , : (Ames test)
Carcinogenic properties:	The product does not have to be classified. Test data are not available.
Reproductive toxicity:	The product does not have to be classified. Test data are not available.
Single STOT exposure:	Inhalation of dust may cause irritation to the upper airways. The product does not have to be classified. Test data are not available.
Repeated STOT exposure:	The product does not have to be classified. Test data are not available.
Aspiration hazard:	The product does not have to be classified. Test data are not available.
Other toxicological effects:	Ingestion may cause caustic burning in mouth, aesophagus and stomach. Pains in mouth, throat and stomach. Difficulty swallowing, feeling unwell and vomiting of blood. Brown spots and burns may appear in and around the mouth.

## SECTION 12: Ecological information

### 12.1. Toxicity

	Very toxic to aquatic life. Test data are not available.
Acute toxicity:	70693-62-8-F: Fish: Cyprinodon variegatus: 96hLC50 = 1,09 mg/l 7727-21-1-B: Fish: Oncorhynchus mykiss: 96hLC50 = 76,3 mg/l
Chronic toxicity:	70693-62-8-F: Fish: Cyprinodon variegatus: 96hNOEC = 0,222 mg/l : Name of species not specified: 28dNOEC = 0,267 mg/l

## 12.2. Persistence and degradability

Test data are not available.

## 12.3. Bioaccumulative potential

Test data are not available.

## 12.4. Mobility in soil

Test data are not available.

## 12.5. Results of PBT and vPvB assessment

The product does not contain any PBT or vPvB substances.

## 12.6. Other adverse effects

The product affects the pH value of the local aquatic environment.

70693-62-8-F: EC50 (bakterie): 179 mg/l

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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Collect spills and waste in closed, leak-proof containers for disposal at the local hazardous waste site. Avoid discharge to drain or surface water.

EWC code: Depends on line of business and use, for instance 16 03 03 inorganic wastes containing dangerous substances

Absorbent/cloth contaminated with the product:  
EWC code: 15 02 02 absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances

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## SECTION 14: Transport information

### ADR/RID

14.1. UN number	3260
14.2. UN proper shipping name	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Pentapotassium bis(peroxymonosulphate) bis(sulphate), Quaternary ammonium compounds, benzyl-C12-14-alkyldimethyl, chlorides)
14.3. Transport hazard class(es)	8
14.4. Packing group	III
Hazard identification number	80
Tunnel restriction code:	E
14.5. Environmental hazards	The product must be labelled as an environmental hazard (symbol: fish and tree) in packaging sizes of more than 5 kg/l.

### ADN

14.1. UN number	3260
14.2. UN proper shipping name	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Pentapotassium bis(peroxymonosulphate) bis(sulphate), Quaternary ammonium compounds, benzyl-C12-14-alkyldimethyl, chlorides)
14.3. Transport hazard class(es)	8
14.4. Packing group	III
14.5. Environmental hazards	The product must be labelled as an environmental hazard (symbol: fish and tree) in packaging sizes of more than 5 kg/l.
Transport in tank vessels:	Not applicable.

### IMDG

14.1. UN number	3260
14.2. UN proper shipping name	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Pentapotassium bis(peroxymonosulphate) bis(sulphate), Quaternary ammonium compounds, benzyl-C12-14-alkyldimethyl, chlorides)
14.3. Transport hazard class(es)	8
14.4. Packing group	III

14.5. Environmental hazards	The product must be labelled as a Marine Pollutant (MP) in packaging sizes of more than 5 kg/l.
IMDG Code segregation group:	Evaluated by IMO, IMDC Code 3.1.4.4
<b>ICAO/IATA</b>	
14.1. UN number	3260
14.2. UN proper shipping name	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Pentapotassium bis(peroxymonosulphate) bis(sulphate), Quaternary ammonium compounds, benzyl-C12-14-alkyldimethyl, chlorides)
14.3. Transport hazard class(es)	8
14.4. Packing group	III
<b>14.6. Special precautions for user</b>	None.
<b>14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.

### SECTION 15: Regulatory information

Covered by: Directive 98/8/EC of the European Parliament and of the Council of 16 February 1998 concerning the placing of biocidal products on the market. (as subsequently amended)

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

Special provisions: Council Directive 96/82/EC (Seveso), Dangerous for the environment: Column 2: 100 t, Column 3: 200 t.

#### 15.2. Chemical safety assessment

Chemical safety assessment has not been performed.

### SECTION 16: Other information

Changes have been made in the following sections: 1,2,3,16

Abbreviation explanations: PBT: Persistent, Bioaccumulative and Toxic vPvB: Very Persistent and Very Bioaccumulative  
STOT: Specific Target Organ Toxicity

Classification method: Calculation based on the hazards of the known components.

H-phrases: H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H360FD May damage fertility. May damage the unborn child.  
H400 Very toxic to aquatic life.

Training: A thorough knowledge of this safety data sheet should be a prerequisite condition.

Other information: This safety data sheet has been prepared for and applies to this product only. It is based on our current knowledge and the information that the supplier was able to provide about the product at the time of preparation. The safety data sheet complies with applicable law on preparation of safety data sheets in accordance with 1907/2006/EC (REACH) as subsequently changed.