

# Safety data sheet

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

### 1.1. Product identifier

Trade name: Chlorine- slow dissolving

### 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  
Fagerholtvej 12  
4050 Skibby  
Denmark  
Tel: +45 70226856  
Fax: +45 70226859  
Email: cl@swim-fun.dk

### 1.4. Emergency telephone number

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

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## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

DPD-classification (Directive 1999/45/EC): Xn;R22 ;R31 Xi;R36/37 N;R50/53

CLP-classification (Regulation (EC) No 1272/2008): Acute tox. 4;H302 STOT SE 3; H335 Eye Dam. 1; H318 Aquatic Chronic 1; H410 Aquatic Acute 1; H400

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

Most serious harmful effects: Harmful if swallowed. May cause respiratory irritation. Causes serious eye damage. Very toxic to aquatic life with long lasting effects. Very toxic to aquatic life.

### 2.2. Label elements



Signal word: Danger

Contains: Symclosene 96g/100g; Aluminium sulfate octadecahydrate

H-phrases: Harmful if swallowed.(H302)  
May cause respiratory irritation.(H335)  
Causes serious eye damage.(H318)  
Very toxic to aquatic life with long lasting effects.(H410)

P-phrases: Keep out of reach of children.(P102)  
Avoid release to the environment.(P273)  
Wear eye protection/face protection.(P280-øa)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.(P305/351/338)  
 If eye irritation persists: Get medical advice/attention.(P337/313)  
 Immediately call a POISON CENTER/doctor.(P310-A)  
 Dispose of contents/container in accordance with local regulation.(P501-A)

Supplemental information: Contact with acids liberates toxic gas. Warning! Do not use together with other products. May release dangerous gases (chlorine).

### 2.3. Other hazards

Assessment to determine PBT and vPvB has not been made.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Registration number	CAS/EC Number	Substance	DSD-classification (Directive 67/548/EEC)/ CLP-classification (Regulation (EC) No 1272/2008)	w/w%	Note
.	87-90-1-C	Symclosene	O;R8 Xn;R22 R31 Xi;R36/37 N;R50/53	80-100	.
.	201-782-8	.	Ox. Sol. 2;H272 Acute Tox. 4;H302	.	.
.	.	.	Eye Irrit. 2;H319 STOT SE 3;H335	.	.
.	.	.	Aquatic Acute 1;H400	.	.
.	.	.	Aquatic Chronic 1;H410	.	.
.	7784-31-8-A	Aluminium sulfate octadecahydrate	Xi;R41	1-5	.
.	.	.	Eye Irrit. 2;H318	.	.

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

Inhalation: Seek fresh air, wash out mouth with water and blow nose thoroughly. Seek medical advice in case of persistent discomfort.

Ingestion: Wash out mouth thoroughly and drink 1-2 glasses of water in small sips. Seek medical advice in case of persistent discomfort.

Skin: 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. Eye contact may result in deep caustic burns, pain, tearing and cramping of the eyelids. Risk of serious eye injury and loss of sight. Inhalation of dust is irritating to the upper airways.

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

Treat symptoms. No special immediate treatment required.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media Extinguish with powder, foam, carbon dioxide or water mist. Use water or water mist to cool non-ignited stock.

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 is not flammable but may feed a fire in the same way as oxygen. The product decomposes when combusted and the following toxic gases can be formed: Nitrous gases/ Chlorine/ Hydrogenchloride/ Hydrogencyanide/ Aldehydes.

### 5.3. Advice for firefighters

Move containers from danger area if it can be done without risk. Avoid inhalation of vapour and flue gases – seek fresh air. Wear Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely.

## SECTION 6: Accidental release measures

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

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

For emergency responders: In addition to the above: Protective suit equivalent to EN 368, type 3, 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. Use water mist to bind dust. Wipe up minor spills with a damp cloth.

## 6.4. Reference to other sections

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

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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Work processes where generation of dust may occur must be performed 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 in a well-ventilated area. Avoid direct sunlight. Do not expose to heat (e.g. sunlight). Do not store with the following: Strong reducing agents/ Strong acids.

### 7.3. Specific end use(s)

None.

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Occupational exposure limits:

Ingredient:	Exposure limit	Comments
Dust (inhalable)	10 mg/m <sup>3</sup> (8h)	
Dust (respirable)	4 mg/m <sup>3</sup> (8h)	

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.

### 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 gloves. Type of material: Plastic/ Rubber. Gloves must conform to EN 374. Breakthrough time has not been determined for the product. Change gloves often.

Personal protective equipment, respiratory protection: In case of insufficient ventilation, wear respiratory protective equipment. Filter type: P. Respiratory protection must conform to one of the following standards: EN 136/140/145.

Environmental exposure controls: Ensure compliance with local regulations for emissions.

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## SECTION 9: Physical and chemical properties

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

State: Tablet  
Colour: White  
Odour: Chlorine  
Odour threshold: No data  
pH (solution for use): 2,7-3,3 (10g/l)  
pH (concentrate): No data  
Melting point/freezing point: 225-230 °C

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:	1,05 g/cm <sup>3</sup>
Solubility:	Solubility in water: 12 g/l (25 °C)
Partition coefficient n-octanol/water:	No data
Auto-ignition temperature:	No data
Decomposition temperature:	225 °C
Viscosity:	No data
Explosive properties:	No data
Oxidising properties:	No data

## 9.2. Other information

None.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reacts with the following: Strong reducing agents/ Strong acids. May generate toxic gases when mixed with other products.

### 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.

### 10.4. Conditions to avoid

Avoid exposure to daylight or other light sources. Avoid contact with moisture and water.

### 10.5. Incompatible materials

Acids.

### 10.6. Hazardous decomposition products

The product decomposes when combusted or heated to high temperatures and the following toxic gases can be formed: Nitrous gases/ Chlorine/ Hydrogenchloride/ Hydrogencyanide/ Aldehydes.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity - oral:	Harmful if swallowed. Ingestion may cause discomfort.  87-90-1-C: Rat: LD50 = 490 mg/kg 7784-31-8-A: Mouse: LD50 = 6207 mg/kg
Acute toxicity - dermal:	The product does not have to be classified. Test data are not available.  87-90-1-C: Rabbit: LD50 >2000 mg/kg
Acute toxicity - inhalation:	The product does not have to be classified. Test data are not available.  87-90-1-C: Rat, 4h: LC50 = 0,54 mg/l
Skin corrosion/irritation:	May cause slight irritation. The product does not have to be classified. Test data are not available.
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.
Respiratory sensitisation or skin sensitisation:	The product does not have to be classified. Test data are not available.
Germ cell mutagenicity:	The product does not have to be classified. Test data are not available.
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 is irritating to the upper airways. 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:	None known.

## SECTION 12: Ecological information

### 12.1. Toxicity

Very toxic to aquatic life with long lasting effects.

Acute toxicity:

87-90-1-C:

Fish: *Lepomis macrochirus*: = 0,3 mg/l

Crustacea: *Daphnia magna*: = 0,21 mg/l

### 12.2. Persistence and degradability

The product contains at least one substance that is not biodegradable.

### 12.3. Bioaccumulative potential

The product contains at least one substance with low bioaccumulative potential.

87-90-1-C: Partition coefficient n-octanol/water: 0,94

### 12.4. Mobility in soil

The product contains at least one substance with high soil mobility. Test data are not available.

### 12.5. Results of PBT and vPvB assessment

No assessment has been made.

### 12.6. Other adverse effects

None known.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

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

EWC code: Depends on line of business and use, for instance 16 05 08 discarded organic chemicals consisting of or containing dangerous substances

## SECTION 14: Transport information

### ADR/RID

14.1. UN number	3077
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (symclosene)
14.3. Transport hazard class(es)	9
14.4. Packing group	III
Hazard identification number	90
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	3077
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (symclosene)
14.3. Transport hazard class(es)	9

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.
Environmental hazard in tank vessels:	-
<b>IMDG</b>	
14.1. UN number	3077
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(symclosene)
14.3. Transport hazard class(es)	9
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:	-
<b>ICAO/IATA</b>	
14.1. UN number	3077
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(symclosene)
14.3. Transport hazard class(es)	9
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.
<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: Regulation (EU) No 528/2012 of the European Parliament and of the Council of 22 May 2012 concerning the making available on the market and use of biocidal products. (as subsequently amended)

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

Special provisions: Directive 2012/18/EU (Seveso), E1 Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1: Column 2: 100 t, Column 3: 200 t.

### 15.2. Chemical safety assessment

Chemical safety assessment has not been performed.

## SECTION 16: Other information

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.
R-phrases:	R22 Harmful if swallowed. R31 Contact with acids liberates toxic gas. R36/37 Irritating to eyes and respiratory system. R37 Irritating to respiratory system. R41 Risk of serious damage to eyes. R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R8 Contact with combustible material may cause fire.
H-phrases:	H272 May intensify fire, oxidiser. H302 Harmful if swallowed. H318 Causes serious eye damage. H319 Causes serious eye irritation.

H335 May cause respiratory irritation.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.

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.

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