



## Safety data sheet

Revision: 10-11-2015  
Replaces: 07-02-2014  
Version: 02.00/GBR

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

#### 1.1. Product identifier

Trade name: Klor Starter  
Substance name: troclosene sodium, dihydrate  
Registration number: -  
EC Number: 220-767-7  
CAS No.: 51580-86-0  
Index number: 613-030-01-7

#### 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.

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### SECTION 2: Hazards identification

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

CLP-classification (Regulation (EC) No 1272/2008): Acute tox. 4; H302 Eye Irrit. 2; H319 STOT SE 3; H335 Aquatic Acute 1; H400 Aquatic Chronic 1; H410

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

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

#### 2.2. Label elements



Signal word:	Warning
Contains:	Troclosene sodium, dihydrate (1 g/g) (EC no. 220-767-7)
H-phrases:	Harmful if swallowed.(H302) Causes serious eye irritation.(H319) May cause respiratory irritation.(H335) 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 protective gloves/protective clothing/eye protection/face protection.(P280) 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) 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

The product does not contain any PBT or vPvB substances.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Registration number	CAS/EC Number	Substance	CLP-classification (Regulation (EC) No 1272/2008)	w/w%	Note
.	51580-86-0-D	Troclosene sodium, dihydrate	Acute Tox. 4;H302 Eye Irrit. 2;H319 STOT SE 3;H335 Aquatic Acute 1;H400	100	.
.	220-767-7	.	Aquatic Chronic 1;H410	.	.
.	.	.	.	.	.

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. 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:	Flush immediately with water (preferably using eye wash equipment) for at least 5 minutes. Open eye wide. Remove any contact lenses. Seek medical advice.
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. Irritating to eyes. Causes a burning sensation and tearing. 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

Hazardous fumes are formed in fire conditions.

### 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.

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## 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.

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. Wipe up minor spills with a damp cloth.

### 6.4. Reference to other sections

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

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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 dry, cool, well-ventilated area. Keep in tightly closed original packaging. Do not store with the following: 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. 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. Change gloves immediately if contaminated, and wash hands with soap and water.

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.

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## SECTION 9: Physical and chemical properties

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

State: Granulate / Tablet

Colour:	White
Odour:	Chlorine
Odour threshold:	No data
pH (solution for use):	(10g/l) 6-7
pH (concentrate):	No data
Melting point/freezing point:	250°C
Initial boiling point and boiling range:	No data
Flash point:	No data
Evaporation rate:	No data
Flammability (solid, gas):	Flammability: 250 °C
Upper/lower flammability limits:	No data
Upper/lower explosive limits:	No data
Vapour pressure:	No data
Vapour density:	No data
Relative density:	1 (bulk)
Solubility:	Solubility in water: 290 g/l (25°C)
Partition coefficient n-octanol/water:	No data
Auto-ignition temperature:	No data
Decomposition temperature:	240°C
Viscosity:	No data
Explosive properties:	Non-explosive
Oxidising properties:	No data

## 9.2. Other information

Bulk density: 0,9-1,0 g/ml

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reacts with strong acids to form very toxic gases.

### 10.2. Chemical stability

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

### 10.3. Possibility of hazardous reactions

No risk of hazardous reactions.

### 10.4. Conditions to avoid

None known.

### 10.5. Incompatible materials

Strong acids.

### 10.6. Hazardous decomposition products

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

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity - oral:	Harmful if swallowed. 51580-86-0-D: Rat: LD50 = 1400 mg/kg
Acute toxicity - dermal:	The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met. 51580-86-0-D: Rabbit: LD50 >5000 mg/kg
Acute toxicity - inhalation:	The product does not have to be classified. Test data are not available.
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:	Irritating to eyes. Causes a burning sensation and tearing. Test data are not available.
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.

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## SECTION 12: Ecological information

### 12.1. Toxicity

Very toxic to aquatic life with long lasting effects.

Acute toxicity:

51580-86-0-D:

Fish: *Oncorhynchus mykiss*: 96hLC50 = 0,250 mg/l

Crustacea: *Daphnia* sp.: = 0,28 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

None known.

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## 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

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## SECTION 14: Transport information

The product is not covered by the rules for transport of dangerous goods.

14.1. UN number

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14.2. UN proper shipping name

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14.3. Transport hazard class(es)

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14.4. Packing group

-

14.5. Environmental hazards

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14.6. Special precautions for user

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14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

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## 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.

### 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.

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### 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

H-phrases: H302 Harmful if swallowed.  
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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