

Stromme Aquaclean HD

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SECTION 1 - IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1. Product identifier

Product name : Stromme Aquaclean HD
 Product code : 3205-10100

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

Application : Professional use. (SU22). Cleaning agent (PC35). Boat maintenance.

1.3. Details of the supplier of the safety data sheet

Supplier : SevenSeas
 Strandveien 55,
 1366 Lysaker, Norway
 www.stromme.com
 Phone : +47 67526060

Informing department

Ane Fosseng
 General Manager - Norway
 SevenSeas
 D +47 67526060
 M +47 99595911
 F +47 67526050
 ane.fosseng@stromme.com

1.4. Emergency telephone number

EMERGENCY TELEPHONE NUMBER, for DOCTORS/FIRE BRIGADE/POLICE only:

GB - Telephone : +44-20 86146571 (During office hours only)

EMERGENCY TELEPHONE NUMBER (for DOCTORS only):
 (24/7)

SECTION 2 - HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

CLP classification : Skin corrosive, category 1B.
 (1272/2008/EC)

Human health hazards : Causes burns.

Physical/chemical hazards : Not classified as dangerous according to statutory EC-Directives. Reacts vigorously in contact with acids. Strong heat development possible.

Environmental hazards : Not classified as dangerous according to statutory EC-Directives.

Other information : Keep out of the reach of children. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

2.2. Label elements

Label elements (1272/2008/EC):

Hazard pictograms :



Signal word : Danger

H- and P-phrases : H314 Causes severe skin burns and eye damage.
 P260 vapour Do not breathe vapours.

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P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P501	Dispose of contents/container to an approved waste disposal plant.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

3.2. Mixtures

Product description : Mixture.

Substance name	Concentration (w/w) (%)	REACH nr.	Hazard Class	Pictograms	H-phrases
Potassium hydroxide Acute Tox. 4; Skin Corr. 1A H302; H314	1 - 5	1310-58-3	215-181-3	01-2119487136-33	#
Alcohols, C9-11, ethoxylated Acute Tox. 4; Eye Dam. 1 H302; H318	1 - 5	68439-46-3	614-482-0		
Tetrapotassium pyrophosphate Eye irrit. 2 H319	1 - 5	7320-34-5	230-785-7		
2-Butoxyethanol Acute Tox. 4; Eye Irrit. 2; Skin Irrit. 2 H332; H312; H302; H319; H315	1 - 5	111-76-2	203-905-0	01-2119475108-36	#
Hexyl D-glucoside Eye Dam. 1 H318	1 - 5	54549-24-5	259-217-6	01-2119492545-29	

Reference is made to chapter 16 for full text of each relevant H phrase. Substance(s) with an Occupational Exposure Limit are marked with #. Occupational exposure limit(s) are listed in section 8.

SECTION 4 - FIRST AID MEASURES

4.1. Description of first aid measures

First aid measures

Inhalation	: Move victim into fresh air. Consult a doctor.
Skin contact	: Immediately wash off skin with plenty of water. Take off contaminated clothing. Consult a doctor in case burns or irritation occur.
Eye contact	: Wash out with (lukewarm) water for at least 15 minutes. Remove contact lenses. Consult a doctor immediately.
Ingestion	: Do not induce vomiting. Rinse the mouth, give 1 glass of water at most. Do not give milk. Never give anything by mouth to an unconscious person. Transport to a hospital immediately.

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

Effects and symptoms

Inhalation	: Corrosive. May cause sore throat and coughing. May cause shortness of breath or lack of breath.
Skin contact	: Corrosive. May cause redness, pain and burns (blisters).

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Eye contact : Corrosive. May cause redness and severe pain. Tears.
Ingestion : Corrosive. May cause burning pain in throat and mouth. May cause a feeling of sickness, stomachache, vomiting and diarrhoea.

SECTION 5 - FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media
Suitable : Carbondioxide (CO₂). Foam. Dry chemical. Water fog.
Not suitable : None known.

5.2. Special hazards arising from the substance or mixture

Special exposure hazards : None known.
Hazardous thermal decomposition products : Carbon monoxide may be evolved if incomplete combustion occurs.

5.3. Advice for firefighters

Special protective equipment for fire-fighters : Use adequate respiratory equipment in case of insufficient ventilation.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : Danger of slipping. Clean up spills immediately. Wear shoes with non-slip soles. Avoid contact with spilled or released material. For guidance on selection of personal protective equipment see section 8. For guidance on disposal of spilled material see section 13.

6.2. Environmental precautions

Environmental precautions : Avoid release of product into sewers, surface water and/or ground water. Large spills: contain with dike. Large scale discharge causing a very high pH may impair the biological system in sewage plants. Inform the official bodies if necessary.
Other information : Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Collect spilled material in containers. Carefully neutralise residues with acid. Absorb residues in sand or other inert material. Dispose at an authorised waste collection point. Wash away remainder with plenty of water.

SECTION 7 - HANDLING AND STORAGE

7.1. Precautions for safe handling

Handling : Handle in accordance with good occupational hygiene and safety practices in well-ventilated areas. When dissolving or diluting, always add product to water. NEVER vice versa. Do not breathe vapour. Avoid contact with skin and eyes. Avoid splashing. Wear protective clothing.

7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep frost-free, in a cool, dry and well-ventilated place (< 35 °C). Keep away from oxidizing agents. Keep away from food, drink and animal feedingstuffs.

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Recommended packaging : Keep only in the original container.

7.3. Specific end use(s)

Use : Use only as directed. Do not mix with other products.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits : Occupational exposure limits have not been established for this product.

 Occupational exposure limits (mg/m³):

Chemical name	Country	TWA 8 hour (mg/m ³)	STEL 15 min (mg/m ³)	Comments
Potassium hydroxide	GB	-	2	-
2-Butoxyethanol	GB	123	246	Skin; BMGV
2-Butoxyethanol	EC	100	246	Skin

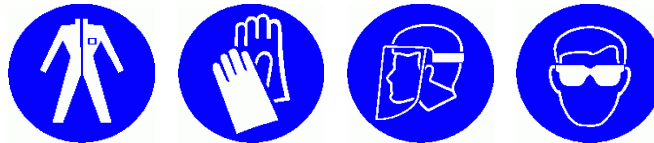
8.2. Exposure controls

Engineering measures : Use only in well-ventilated areas. Comply with standard precautionary measures for working with chemicals.

Hygienic measures : When using do not eat, drink or smoke.

Personal protective equipment:

The efficiency of personal protective equipment depends among other things on temperature and degree of ventilation. Always get professional advice for the particular local situation.



Body protection : Wear appropriate protective clothing, overalls or suit, and similar boots in accordance with EN 365/367 resp. 345. Suitable material: neoprene. Indication of permeation breakthrough time: not permeable.

Respiratory protection : Take care of sufficient ventilation. Wear suitable respiratory protection in case of large scale exposure. Suitable: gas filter type A (brown), class I or higher on e.g. a facemask in accordance with EN 140.

Hand protection : Wear appropriate safety gloves in accordance with EN 374. Suitable material: neoprene. ± 0,5 mm Indication of permeation breakthrough time: not permeable.

Eye protection : Wear a face shield or appropriate safety glasses with side shields, in accordance with EN 166.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance : Liquid.
 Colour : Colourless.
 Odour : Characteristic.
 Odour threshold : Not known.
 pH : 13,6
 Solubility in water : Soluble.
 Partition coefficient (n-octanol/water) : Not applicable.

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Flash point	: > 100 °C	(PMcc)
Auto ignition temperature	: > 230 °C	
Boiling point/boiling range	: 100 °C	
Melting point/melting range	: 0 °C	
Explosion limits (in air)	: Not known.	
Oxidising properties	: Not applicable.	
Decomposition temperature	: Not applicable.	
Viscosity (20°C)	: 1 mm ² /sec	(1 mm ² /sec = 1cSt)
Viscosity (40°C)	: < 7 mm ² /sec	
Vapour pressure (20°C)	: Not known.	
Vapour density (20°C)	: Not known.	(air = 1)
Relative density (20°C)	: 1 g/ml	
Evaporation rate	: < 1	(n-butyl acetate = 1)

SECTION 10 - STABILITY AND REACTIVITY

10.2. Chemical stability

Stability : Stable under normal conditions.

10.3. Possibility of hazardous reactions

Reactivity : No other hazardous reactions known.

10.4. Conditions to avoid

Conditions to avoid : See section 7.

10.5. Incompatible materials

Materials to avoid : Keep away from acids. Keep away from oxidizing agents.

10.6. Hazardous decomposition products

Hazardous decomposition products : Not known.

SECTION 11 - TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

No toxicological research has been carried out on this product.

Inhalation

Acute toxicity	: Calculated LC50: > 10 mg/l. Ingredients of unknown toxicity: 16 %. ATE: > 5 mg/l.
Corrosion/irritation	: Corrosive. May cause sore throat and coughing. May cause pulmonary oedema. Symptoms of pulmonary oedema often manifest after several hours.
Sensitisation	: Does not contain respiratory sensitisers. Not classified - based on available data, the classification criteria are not met.
Carcinogenicity	: Does not contain carcinogenic substances. Not classified - based on available data, the classification criteria are not met.
Mutagenicity	: Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Skin contact

Acute toxicity	: Calculated LD50: > 5000 mg/kg.bw. Ingredients of unknown toxicity: 4 %. ATE: > 2000 mg/kg.bw.
Corrosion/irritation	: Corrosive. May cause redness, pain and burns (blisters).

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- Sensitisation : Does not contain skin sensitisers. Not classified - based on available data, the classification criteria are not met.
- Mutagenicity : Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.
- Eye contact
- Corrosion/irritation : Corrosive. Risk of serious damage to eyes.
- Ingestion
- Acute toxicity : Calculated LD50: > 5000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met.
- Corrosion/irritation : Corrosive. May cause burning pain in throat and mouth. May cause a feeling of sickness, stomachache, vomiting and diarrhoea.
- Carcinogenicity : Does not contain carcinogenic substances. Not classified - based on available data, the classification criteria are not met.
- Mutagenicity : Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Toxicological information:

Chemical name	Property		Method	Test animal
Potassium hydroxide	Skin irritation	Corrosive.		Rabbit
	Skin sensitisation	Not sensitizing	-----	Guinea pig
	Eye irritation	Corrosive.	OECD 405	Rabbit
	LD50 (oral)	333 mg/kg bw	OECD 425	Rat
	Mutagenicity	Negative	OECD 471	

SECTION 12 - ECOLOGICAL INFORMATION

12.1. Toxicity

No ecotoxicological research has been carried out on this product.

- Ecotoxicity : Not classified as dangerous for the aquatic environment. Calculated LC50 (fish): 185 mg/l. Calculated EC50 (waterflea): 131 mg/l. Contains 2 % of components with unknown hazards to the aquatic environment. Not classified - based on available data, the classification criteria are not met.

12.2. Persistence and degradability

- Persistence – degradability : No specific information known. The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) 648/2004 on detergents.

12.3. Bioaccumulative potential

- Bioaccumulative potential : No specific information known.

12.4. Mobility in soil

- Mobility : If product enters soil, it will be highly mobile and may contaminate groundwater.

12.6. Other adverse effects

- Other information : Not applicable.

SECTION 13 - DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

- Product residues : Do not dispose empty pack with waste produced by households. Containers should be recycled or re-used. Treat product residues and non-empty pack as hazardous waste.

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Additional warning : None.
 Waste water discharge : Avoid discharge of waste water arising from tank cleaning to the environment.
 European waste catalogue : Dispose hazardous waste in accordance with Directive 91/689/EEC under acknowledgement of a waste code according to Commission Decision 2000/532/EC to an official chemical waste depot.
 Local legislation : Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.

SECTION 14 - TRANSPORT INFORMATION

14.1. UN number

UN nr. : UN 1719

14.2. UN proper shipping name

Transport name : CAUSTIC ALKALI LIQUID, N.O.S. (Potassium hydroxide)

14.3/14.4/14.5. Transport hazard class(es)/Packing group/Environmental hazards

ADR/RID (road / railway)

Class : 8
 Classification code : C5
 Packaging group : III
 Danger label : 8



IMDG (sea)

Class : 8
 Packaging group : III
 EmS (fire / spill) : F - A / S - B
 Marine pollutant : No

IATA (air)

Class : 8

14.6. Special precautions for user

Other information : Country specific variations may apply.

SECTION 15 - REGULATORY INFORMATION

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

Community regulations : Regulation (EC) No 1907/2006 (REACH), Regulation (EC) No 1272/2008 (CLP) and other regulations.

Additional labelling: none.

Other information : The packaging shall carry the text: Contains: Potassium hydroxide

Ingredient declaration according to Regulation 648/2004:

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Contains:	Concentration (%)
Non-ionic surfactants	5 - 15
Phosphates	< 5

SECTION 16 - OTHER INFORMATION

16.1. Other information

The information in this safety data sheet is compiled in compliance with Regulation (EC) 1907/2006 dated 18 December 2006 and accurate to the best of our knowledge and experience at the date of issue specified. It is the user's obligation to use this product safely and to comply with all applicable laws and regulations concerning the use of the product. This safety data sheet complements the technical information sheets but does not replace them and offers no warranty with regard to product properties.

Users are also forewarned for any hazards involved when the product is used for other purposes than those for which it is designed.

Changed or new information with regard to the previous release is indicated with an asterisk (*).

Full text of H-phrases mentioned in section 3:

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.

List of abbreviations and acronyms that could be (but not necessarily are) used in this safety data sheet:

ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
DNEL	Derived no-effect level
ECETOC TRA	European centre for ecotoxicology and toxicology of chemicals. Targeted risk assessment
EU	European Union
EUSES	European Union System for the Evaluation of Substances
IBC code	Intermediate Bulk Container
LD50 LC50	Lethal Dose/Concentration for 50% of a population
NOAEL	No Observed (Adverse) Effect Level
NOEC	No observed effect concentration
OEL	Occupational exposure limit
PBT	Persistent, Bioaccumulative and Toxic
PC	Chemical product category
PNEC	Predicted no-effect concentration
STP	Sewage Treatment Plant
SU	Sector of Use
SVHC	Substance of very high concern
TWA/STEL	Time-Weighted Average/Short Term Exposure Limit
vPvB	Very Persistent and Very Bioaccumulative

Number format : "," used as decimal separator.

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