

SAFETY DATA SHEET

SALINITY

EXPERTS IN SALT SINCE 1830

Saltwell

SDS according to Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex II-EU

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

Date issued 03.06.2013

Revision date 24.07.2013

1.1. Product identifier

Product name Saltwell

Synonyms Description: Sea salt – naturally reduced sodium. This is an European Safety Data Sheet in accordance with the EC Regulation No 453/2010.

Article no. 279200

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

Function Description: Food additive

Use of the substance / preparation Food industry.

1.3. Details of the supplier of the safety data sheet**Manufacturer**

Company name Ab Hanson & Möhring – Salinity AB

Postal address Nellickevägen 20

Postcode SE-412 63

City Göteborg

Country Sweden

Telephone number + 46 (0) 31 309 25 00

Email info@salinity.com

Website www.salinity.com

1.4. Emergency telephone number

Emergency telephone Telephone number: +46 8 331231
Description: Swedish Poisons Information Centre; mon-fri 9.00-17.00

Telephone number: 112.
Description: Emergency telephone

SECTION 2: Hazards identification

2.1. Classification of substance or mixture

DPD / DSD Classification notes	Classification according to 67/548/EEC or 1999/45/EC: Not classified.
CLP classification, notes	Classification according to (EC) No.1272/2008: Not classified.

2.2. Label elements

Other label information	This chemical does not require labelling.
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2.3. Other hazards

PBT / vPvB	Not relevant.
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SECTION 3: Composition / information on ingredients

3.1. Substances

Substance	Identification	Classification	Contents
Sodium chloride	CAS No.: 7647-14-5 EC No.: 231-598-3		~ 65 %
Potassium chloride	CAS No.: 7447-40-7 EC No.: 231-211-8		~ 30 %
Description of the mixture	This product is a substance, obtained by solar evaporation of a brine in natural state.		
Substance comments	The above content statements are typical values as stated in the product specification.		

SECTION 4: First aid measures

4.1. Description of first aid measures

General	If in doubt, seek medical advice.
Inhalation	Move into fresh air and keep at rest.
Skin contact	Remove contaminated clothes and rinse skin thoroughly with water. Clothing should be washed before reuse.
Eye contact	Immediately flush with plenty of water or eyewash solution for up to 10 minutes. Get medical attention if any discomfort continues.
Ingestion	Rinse mouth thoroughly. Drink plenty of water. Contact physician if larger quantity has been consumed.

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

Acute symptoms and effects	Inhalation: High concentration of dust may cause irritation to mucous membranes. Skin contact: May cause slight irritation. Eye contact: May cause eye irritation. Symptoms may be stinging pain and redness in the eyes. Ingestion: May cause nausea, vomiting and diarrhea. Thirst, cramps, circulatory disorders.
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4.3. Indication of any immediate medical attention and special treatment needed

Other information	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials.
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5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	The chemical is non-combustible.
Hazardous combustion products	Hazardous fumes may be formed in fire situations. Can include, but are not limited to: Sodium oxide. Potassium oxide. Chlorine. Hydrogen chloride (HCl).

5.3. Advice for firefighters

Personal protective equipment	Self-contained breathing apparatus may be required by rescue workers. In case of evacuation, use escape mask where possible.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal protection measures	Avoid generation and spreading of dust. Avoid contact with skin and eyes. Use protective equipment as referred to in section 8.
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6.2. Environmental precautions

Environmental precautionary measures	Avoid discharge into drains, water courses or onto the ground.
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6.3. Methods and material for containment and cleaning up

Cleaning method	Sweep away and collect into a suitable container. Dispose of in accordance with local regulations for waste handling (see section 13). Minor residues may be rinsed away with plenty of water.
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6.4. Reference to other sections

Other instructions	See also sections 8 and 13.
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Handling and storage

7.1. Precautions for safe handling

Handling	Avoid handling which leads to dust formation. Provide adequate ventilation. Avoid contact with eyes and prolonged skin contact. Use protective equipment as referred to in section 8.
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Protective safety measures

Advice on general occupational hygiene

Wash hands after contact with the chemical. Change contaminated clothing and take off protective equipment before the meal. Do not smoke, drink or eat in the workplace.

7.2. Conditions for safe storage, including any incompatibilities

Storage

Store in tightly closed original container in a dry, cool and well-ventilated place.
Store separated from: Strong acids. Oxidizing agents

Conditions for safe storage

Requirements for storage rooms and vessels

Suitable containers: polyethylene. Stainless steel. Unsuitable containers: metals.

7.3. Specific end use(s)

Specific use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Substance	Identification	Value	TWA Year
Dust (of any kind)		TWA (8h) : 10 mg/m ³ Exposure limit letter Letter description: Inhalable dust	
		TWA (8h) : 4 mg/m ³ Exposure limit letter Letter description: Respirable dust	

8.2. Exposure controls

Limitation of exposure on workplace

Personal protection equipment should be chosen according to the CE standards and in discussion with the supplier of the personal protective equipment. The listed protective equipment is a recommendation. A risk assessment of the actual risk may lead to other requirements.

Precautionary measures to prevent exposure

Technical measures to prevent exposure

Provide adequate ventilation.

Respiratory protection

Respiratory protection

Use mask with filter P2 in case of dust formation.

Hand protection

Hand protection

Use suitable protective gloves if risk of skin contact. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

Suitable gloves type

Polyvinyl chloride (PVC). Nitrile.

Unsuitable materials Leather.

Eye / face protection

Eye protection Use tight fitting goggles if dust is generated.
Reference to relevant standard EN 166.

Skin protection

Skin protection (except hands) Ordinary workwear.

Appropriate environmental exposure control

Environmental exposure controls Do not allow to enter into sewer, water system or soil.

Other information

Other information Eye wash facilities should be available when handling this chemical.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Crystals.
Colour	White.
Odour	Odourless.
Odour limit	Comments: Not relevant.
pH	Status: In aqueous solution Value: ~ 7
Melting point / melting range	Value: ~ 802 °C
Boiling point / boiling range	Value: 1413 °C
Flash point	Comments: Not applicable. Not flammable.
Evaporation rate	Comments: Not applicable.
Explosion limit	Comments: Not applicable.
Vapour pressure	Value: 2,4 mm Hg Temperature: 747 °C
Vapour density	Comments: Not applicable.
Specific gravity	Value: ~ 2165 kg/m ³
Solubility in water	~ 360 g/l.
Partition coefficient: n-octanol/ water	Comments: Not applicable.
Spontaneous combustability	Comments: Not applicable.
Decomposition temperature	Comments: Not known.
Viscosity	Comments: Not applicable.
Oxidising properties	Not oxidising.

9.2. Other information

Other physical and chemical properties

Comments No further information is available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability The chemical is stable under normal conditions of storage and use.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal conditions. Arise in contact with incompatible materials (section 10.5).

10.4. Conditions to avoid

Conditions to avoid Water, moisture.

10.5. Incompatible materials

Materials to avoid Strong acids. Oxidizing agents. Metals. (korrosion).

10.6. Hazardous decomposition products

Hazardous decomposition products With strong acids: Hydrogen chloride (HCl). With oxidizing agents: Chlorine gas. (Cl₂)

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity
 Type of toxicity: Acute
 Effect tested: LD50
 Route of exposure: Oral
 Value: 3000 mg/kg
 Species: råtta
 Comments: Sodium chloride (CAS 7647-14-5).

Other toxicological data
 Sodium chloride; TDLo human: 12357 mg/kg. Ingestion of 0,5-1 g/kg can be toxic to most people. All the values that are stated in section 11, are given by the producer.

Acute toxicity, Mixture estimate

Assessment of acute toxicity, classification
 Based on available data, the classification criteria are not met.

Potential acute effects

Inhalation	High concentrations of dust may irritate throat and respiratory system and cause coughing.
Skin contact	Slightly irritating.
Eye contact	May irritate and cause redness and pain.
Ingestion	Ingestion of significant amounts may cause nausea and vomiting. Other symptoms: thirst, cramps, circulatory disorders. Sodium chloride effects the blood pressure.
Irritation	Based on available data, the classification criteria are not met.
Skin corrosion / irritation, other information	Sodium chloride, dermal irritation test, rabbit: slightly irritating.
Aspiration hazard	Not applicable.
Eye damage or irritation other information	Sodium chloride, eye irritation test, rabbit: moderately irritating.

Delayed effects / repeated exposure

Sensitisation	Based on available data, the classification criteria are not met.
Repeated dose toxicity	Based on available data, the classification criteria are not met.

Carcinogenic, Mutagenic or Reprotoxic

Carcinogenicity, other information	Based on available data, the classification criteria are not met.
Mutagenicity	Based on available data, the classification criteria are not met.
Teratogenic properties	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic, fish	Value: 6750 mg/l Test duration: 96 h Method: LC50.
Acute aquatic, algae	Value: 3014 mg/l Test duration: 72 h Method: IC50.
Acute aquatic, Daphnia	Value: 2024 mg/l Test duration: 48 h Method: EC50
Aquatic, comments	All the values that are stated in section 12 are given by the producer.

12.2. Persistence and degradability

Persistence and degradability, comments	The product solely consists of inorganic compounds which are not biodegradable. Sodium-, potassium- and chloride ions are formed in water solutions.
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12.3. Bioaccumulative potential

Bioaccumulative potential Will not bio-accumulate.

12.4. Mobility in soil

Mobility Soluble in water.

12.5. Results of PBT and vPvB assessment

PBT assessment results PBT assessment has not been performed. Not applicable.

vPvB evaluation results vPvB assessment has not been performed. Not relevant.

12.6. Other adverse effects

Other adverse effects, comments Do not allow to enter into sewer, water system or soil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Specify the appropriate methods of disposal Confirm disposal procedures with environmental engineer and local regulations. The waste code (EWC-Code) is intended as a guide. The user must select a code if the use differs from the one mentioned below. Empty and cleaned packages may be recycled.

Product classified as hazardous waste No

EWC waste code EWC: 06 03 14 solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13

SECTION 14: Transport information

14.1. UN number

Comments Not considered as dangerous goods under UN, IMO, ADR/RID or IATA/ICAO regulations.

14.2. UN proper shipping name

Comments Not relevant.

14.3. Transport hazard class(es)

Comments Not relevant.

14.4. Packing group

Comments Not relevant.

14.5. Environmental hazards

Comments Not relevant.

14.6. Special precautions for user

Special safety precautions for user Not relevant.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Pollution category Not relevant.

SECTION 15: Regulatory information

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

References (laws/regulations)

Dangerous Substance Directive 67/548/EEC.
 Dangerous Preparations Directive 1999/45/EC.
 Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP-regulation) with later amendments.
 Regulation (EC) No 1907/2006 (REACH) Annex II: Safety data sheets, with later amendments.
 EH40/2005 Workplace exposure limits, with later amendments.
 Commission Directive 2009/161/EU of 17 December 2009 establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC.
 European Waste Catalogue and Hazardous Waste List Dangerous Goods regulations

15.2. Chemical safety assessment

Chemical safety assessment performed No

CSR required No

SECTION 16: Other information

Supplier's notes The information contained in this SDS must be made available to all those who handle the product.

Abbreviations and acronyms used
 EC50: The effective concentration of substance that causes 50% of the maximum response
 IC50: Concentration of an inhibitor where the response is reduced by half.
 LC50: Median lethal concentration. The concentration causing 50 % lethality.
 LD50: Lethal dose, is the amount of a substance given to a group of test animals, which causes the death of 50%.
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative

Key literature references and sources for data The Safety Data Sheet is based on information provided by the producer.
 Suppliers Safety data sheet dated: 03.03.2011

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