

SAFETY DATA SHEET

Vacuum salt

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 05.02.2014

1.1. Product identifier

Product name	Vacuum salt
Chemical name	Sodium chloride. Salt tablets. Axal. Rock salt food. Granular salt.
Synonyms	Description: This is an European Safety Data Sheet in accordance with the EC Regulation No 453/2010.
CAS no.	7647-14-5
EC no.	231-598-3

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

Use of the substance/preparation Food. Water softening.

1.3. Details of the supplier of the safety data sheet

Manufacturer

Company name	Ab Hanson & Möhring
Postal address	Box 222
Postcode	SE-301 06
City	Halmstad
Country	Sweden
Tel	+ 46 (0) 35 18 32 00
Fax	+ 46 (0) 35 18 32 90
E-mail	info@salinity.com
Website	http://www.salinity.com/

1.4. Emergency telephone number

Emergency telephone Emergency telephone:112.
Swedish Poisons Information Centre; mon-fri 9.00-17.00:+46 8 331231

SECTION 2: Hazards identification

2.1. Classification of substance or mixture

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

2.2. Label elements

Other Label Information This chemical does not require labelling.

2.3. Other hazards

PBT / vPvB Not relevant.

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		98,5 - 100 %

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	Flush immediately with plenty of water for at least 5 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	<p>Inhalation: High concentration of dust may cause irritation to mucous membranes.</p> <p>Skin contact: May cause slight irritation.</p> <p>Eye contact: May cause eye irritation. Symptoms may be stinging pain and redness in the eyes.</p> <p>Ingestion: May cause nausea, vomiting and diarrhea. Thirst.</p>
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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. May include, but is not limited to: Sodium 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	<p>Avoid generation and spreading of dust. Avoid contact with skin and eyes.</p> <p>Use protective equipment as referred to in section 8.</p>
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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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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling	<p>Avoid handling which leads to dust formation. Provide adequate ventilation.</p> <p>Avoid contact with eyes and prolonged skin contact. Use protective equipment as referred to in section 8.</p>
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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.
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7.2. Conditions for safe storage, including any incompatibilities

Storage	Store in a tightly closed container in a dry place. Protect from rain / moisture. Store separated from: Strong acids. Oxidizing agents. Metals. (corrosion).
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Conditions for safe storage

Requirements for storage rooms and vessels	Suitable containers: polyethylene. Stainless steel. Unsuitable containers: metals.
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7.3. Specific end use(s)

Specific use(s)	The identified uses for this product are detailed in Section 1.2.
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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure limit values

Substance	Identification	Value	TWA Year
Dust (of any kind)		8-hour TWA: 10 mg/m ³	
		Inhalable dust	
		8-hour TWA: 4 mg/m ³	
		Respirable dust	

8.2. Exposure controls

Limitation of exposure on workplace	Personal protective equipment must be CE-marked and should be chosen in collaboration with the supplier of such equipment. The recommended protective equipment and the specified standards are only suggestions. The latest version of the specified standard shall be used. Risk assessment of the relevant current work/operation (the actual risk) may lead to other control measures.
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Precautionary measures to prevent exposure

Technical measures to prevent exposure	Provide adequate ventilation.
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Respiratory protection

Respiratory protection	During dust-raising work: Use respiratory equipment with particle filter, type P1.
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Reference to relevant standard	EN 143.
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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. Use gloves from resistant material, eg.: Nitrile. Polyvinyl chloride (PVC). Neoprene.
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Eye / face protection

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

Skin protection (except hands)	Ordinary workwear.
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Appropriate environmental exposure control

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

Other Information	Eye wash facilities should be available when handling this chemical.
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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Crystals.
Colour	Colorless to white
Odour	Odourless.
Comments, Odour limit	Not relevant.
pH (aqueous solution)	Value: 6-9 Test reference: Vid 50 g/l. Test temperature: 20 °C
Comments, pH (aqueous solution)	Neutral.
Melting point/melting range	Value: ~ 801 °C
Boiling point / boiling range	Value: 1413 °C
Comments, Flash point	Not applicable. Not flammable.
Comments, Evaporation rate	Not applicable.
Comments, Explosion limit	Not applicable.
Vapour pressure	Value: 0 mbar Test temperature: 20 °C
Comments, Vapour density	Not applicable.
Specific gravity	Value: ~ 2160 kg/m³
Bulk density	Value: 1100-1400 kg/m³
Solubility in water	Ca 317 g/l vid 20 °C. Easily soluble.
Comments, Partition coefficient: n-octanol / water	Not known. Not applicable.
Comments, Spontaneous combustability	Not applicable.
Comments, Decomposition temperature	Not known.
Comments, Viscosity	Not applicable.
Oxidising properties	Not oxidising.

9.2. Other information

Other physical and chemical properties

Comments	No further information is available.
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SECTION 10: Stability and reactivity

10.1. Reactivity

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

Stability	The chemical is stable under normal conditions of storage and use.
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10.3. Possibility of hazardous reactions

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

Conditions to avoid	Water, moisture.
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10.5. Incompatible materials

Materials to avoid	Strong acids. Oxidizing agents. Metals. (corrosion)
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10.6. Hazardous decomposition products

Hazardous decomposition products	With strong acids: Hydrogen chloride (HCl). With oxidizing agents: Chlorine gas (Cl ₂).
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological Information:

LD50 oral	Value: 3000 mg/kg Animal test species: rat Comments: Literature value.
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Acute toxicity, Mixture estimate

Assessment of acute toxicity classification	Based on available data, the classification criteria are not met.
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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, cardiac effects. 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 (Source: IUCLID)
Aspiration hazard	Not applicable.
Eye damage or irritation other info	Sodium chloride, eye irritation test, rabbit: moderately irritating. (Source: IUCLID).

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	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: 7341 mg/l Method of testing: LC50. Fish, species: Carassius auratus Duration: 96 hours Test reference: Literature value.
Acute aquatic, algae	Value: 9000 mg/l Method of testing: EC50. Duration: 7 days Test reference: Literature value.
Acute aquatic, Daphnia	Value: 4135 mg/l Method of testing: EC50 Daphnia, species: Daphnia magna Duration: 48 hours Test reference: Literature values.
Aquatic, comments	EC17, bakterie (Paramecium tetraurelia), 5 days: 577 mg/l. Literature value.

12.2. Persistence and degradability

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

Bioaccumulative potential	Will not bio-accumulate.
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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 / Remarks High doses of sodium chloride can be harmful to plants

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 packaging 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

EC no. 231-598-3

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

References (laws/regulations) Dangerous Substance Directive 67/548/EEC.
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.
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.
EH40/2005 Workplace exposure limits, with later amendments.
Commission Decision of 3 May 2000 replacing Decision 94/3/EC establishing a list of wastes pursuant to Article 1(a) of Council Directive 75/442/EEC on

waste and Council Decision 94/904/EC establishing a list of hazardous waste pursuant to Article 1(4) of Council Directive 91/689/EEC on hazardous waste. Dangerous Goods regulations

15.2. Chemical safety assessment

Chemical safety assessment performed	No
CSR required	No

SECTION 16: Other information

Abbreviations and acronyms used	EC50: The effective concentration of substance that causes 50% of the maximum response 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
Important data sources used to construct the safety data sheet	The Safety Data Sheet is based on information provided by the producer.
Information which has been added, deleted or revised	New Safety Data Sheet.
Version	1
Responsible for safety data sheet	Ab Hanson & Möhring
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