



DS200 SAFETY DATA SHEET
Water Softening Salt Tablets

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name Salt
Trade Name Granular; Tablets and Pure Dried Vacuum

Alternative names Sodium Chloride, Common Salt, Evaporated Salt
Chemical Name Sodium chloride; NaCl
CAS No. 7647-14-5

EC No. 231-598-3
REACH Registration No. Listed in REACH 1907/2006 Annexe V Section 7, exempted from registration.

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

Identified Use(s) Chemical manufacture and processing. Water treatment. Food and Feed industry.
Laboratory chemical. highways de-icing.
Uses Advised Against None.

1.3 Details of the supplier of the safety data sheet

Company Identification Maclin Sourcing Solutions Ltd
Address of Supplier Unit A3 Risby Business Park
Newmarket Road
Risby
Suffolk
IP28 6RD
Tel: +44 (0) 1284 810 887
Email: info@maclingroup.co.uk

1.4 Emergency telephone number Telephone: + 44 (0) 1284 810 887 (08.00 – 17.00 Mon-Fri)
Nations Poisons Information Service (NPIS) UK; 0344 892 0111
Nations Poisons Information Service (NPIS) IRELAND: 01 8092 166

2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Regulation (EC) No. 1272/2008 (CLP) Not classified as dangerous for supply/use.

2.2 Label elements

Product Name According to Regulation (EC) No. 1272/2008 (CLP)
Salt

Hazard Pictogram(s) None.

Signal Word(s) None.



DS200 SAFETY DATA SHEET
Water Softening Salt Tablets

Hazard Statement(s) None.

Precautionary Statement(s) None.

Additional label requirements None.

2.3 Other hazards None.
None.

2.4 Additional Information

SECTION 3: COMPOSITION INFORMATION

3.1 Substances

HAZARDOUS INGREDIENT(S)	CAS No.	EC No. / REACH	%W/W	Hazard Statement(s)	Hazard Pictogram(s)
Sodium chloride	7647-14-5	231-598-3	≥99.9	Not classified	None.

3.2 Mixtures Not Applicable.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation	If breathing is difficult, remove victim to fresh air and keep at rest in a comfortable position for breathing.
Skin Contact	Wash skin with soap and water.
Eye Contact	Flush eyes with water for at least 15 minutes. If symptoms develop, obtain medical attention.
Ingestion	Wash out mouth with water. Do not induce vomiting. Obtain immediate medical attention if ill effects occur.

4.2 Most important symptoms and effects, both acute and delayed

Large doses may result in irritation of the gastrointestinal tract leading to nausea, vomiting and diarrhoea. Dehydration and congestion may occur in internal organs. May cause physical abrasion in contact with skin and eyes. Dust may have irritant effect on eyes. High concentrations of dust may be irritant to the respiratory tract. Repeated exposure by inhalation may produce adverse effects on the lungs.

4.3 Indication of any immediate medical attention and special treatment needed

Unlikely to be required but if necessary treat symptomatically. Low acute toxicity under normal conditions of handling and use.



DS200 SAFETY DATA SHEET

Water Softening Salt Tablets

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing media	As appropriate for surrounding fire.
Unsuitable extinguishing media	None.

5.2 Special hazards arising from the substance or mixture

Low fire hazard.

5.3 Advice for firefighters

A self contained breathing apparatus and full protective clothing should be worn in fire conditions. Potential hazard from the combustion of packaging materials.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust generation. Avoid breathing dust. Wear suitable gloves and eye/face protection.

6.2 Environmental precautions

Avoid release to the environment. Contain spillages. Transfer to a lidded container for disposal or recovery.

6.3 Methods and material for containment and cleaning up

Sweep up solid substance. Transfer to a container for disposal or recovery. Wash the spillage area with water.

6.4 Reference to other sections

See Also Section 8, 13.

6.5 Additional Information

Spillages or uncontrolled discharges into watercourses must be alerted to the Environment Agency or other appropriate regulatory body.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid prolonged skin contact. Avoid dust generation. Avoid inhalation of high concentrations of dusts. Provide adequate ventilation where operational procedures demand it. Keep away from strong acids and common metals. Static electricity can be generated by pneumatic conveying, therefore pipes should be bonded and earthed, especially where a spark could prove hazardous.

7.2 Conditions for safe storage, including any incompatibilities

Store in a dry place. Keep only in the original container in a cool, well ventilated place away from moisture

Storage temperature

Ambient

Storage life

Stable under normal conditions. See Section: 10.2

Incompatible materials

Strong Acids. See Section: 10.3

7.3 Specific end use(s)

Contact supplier for further information. See Also Section 1.2



DS200 SAFETY DATA SHEET
Water Softening Salt Tablets

8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits Sodium chloride: No Occupational Exposure Limit assigned.

Occupational Exposure Limits						
SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Notes
Inhalable Dust	Not applicable		10			
Respirable Dust	Not applicable		4			

Region Source

United Kingdom UK Workplace Exposure Limits EH40/2005 (Fourth edition, published 2020)

8.1.2 PNECs and DNELs

Sodium chloride			
DNEL / DMEL	Oral	Inhalation	Dermal
Industry - Long Term - Local effects			
Industry - Long Term - Systemic effects		2069 mg/m ³	296 mg/kg bw/day
Industry - Short term - Local effects			
Industry - Short term - Systemic effects		2069 mg/m ³	296 mg/kg bw/day
Consumer - Long Term - Local effects			
Consumer - Long Term - Systemic effects	127 mg/kg bw/day	443 mg/m ³	127 mg/kg bw/day
Consumer - Short term - Local effects			
Consumer - Short term - Systemic effects	127 mg/kg bw/day	443 mg/m ³	127 mg/kg bw/day

Sodium chloride	
Environment	PNEC
Aquatic Compartment (including sediment)	Fresh water: 5 mg/l, Marine water: Not applicable. Intermittent releases: 19 mg/l, Sewage treatment plant: 500 mg/l Fresh water Sediment (Dry): Not applicable. Marine water Sediment (Dry): Not applicable.
Terrestrial Compartment	Soil (Dry) 4.86 mg/kg
Atmospheric Compartment	Not applicable.

8.2 Exposure controls

8.2.1. Appropriate engineering controls



Eye Protection

Wear suitable eye/face protection. If dust is likely to be generated: Goggles giving complete protection to eyes.



Skin protection

Wear protective gloves. The following materials are suitable for protective gloves (permeation time $\geq$ 8 hours): Nitrile rubber (0.35mm), PVC (0.5mm), Butyl rubber (0.5mm), Fluorocarbon rubber (0.4 mm), Polychloroprene CR (0.5 mm), Natural rubber (0.5mm). Check with protective equipment manufacturer's data.



Respiratory protection

Normally no personal respiratory protection is necessary. An approved dust mask should be worn if dust is generated during handling. A suitable dust mask or dust respirator with filter type P (EN143 or EN405) may be appropriate.



Thermal hazards

None known

8.2.3. Environmental Exposure Controls Do not release large quantities into the surface water or into drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Crystalline Solid
Odour	Colourless
Odour threshold	Odourless
pH	Not established.
Melting point/freezing point	Not applicable.
Initial boiling point and boiling range	801 °C
Flash Point	1461 °C
Evaporation rate	Not applicable.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	Non-flammable
Vapour pressure	Not applicable.
Vapour density	1.33hPa @ 865 °C
Density (g/ml)	No data available.
Relative density	2.16
Solubility(ies)	2.17
Partition coefficient: n-octanol/water	Solubility (Water) : freely soluble 317 g/l @ 20 °C
Auto-ignition temperature	Solubility (Other) : Insoluble
Decomposition Temperature (°C)	Not applicable.
Viscosity	Not applicable
Explosive properties	No data available.
Oxidising properties	Not applicable.
	Not explosive
	Not oxidising.



DS200 SAFETY DATA SHEET

Water Softening Salt Tablets

9.2 Other information

Molecular weight

Density (g/ml)

Particle Size

58.44 Bulk

1.2 to 1.5 approximately (except tablets)

Granular Grade(s): 1 – 3 mm (typically)

Pure Dried Vacuum grade: free running cubic crystals mostly 0.2 - 0.6mm in size.

Tablets: 24x24x13 mm

10. SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	None Anticipated
10.2 Chemical Stability	Stable under normal conditions
10.3 Possibility of hazardous reaction	Reaction with concentrated acid will produce hydrogen chloride.
10.4 Conditions to avoid	Avoid dust generation. Avoid accumulation of dust. Under wet conditions, will corrode many common metals, particularly iron, aluminum and zinc.
10.5 Incompatible materials	Strong oxidising agents
10.6 Hazardous decomposition products	None

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity - Ingestion	Not classified. LD50 (rat): 3550 mg/kg bw May cause vomiting and diarrhoea. The swallowing of small amounts is unlikely to cause any adverse effects.
Acute toxicity - Skin Contact	Not classified. LD50 (rabbit): >10,000 mg/kg bw
Acute toxicity - Inhalation	Not classified. LD50 (1 hour(s)) (rat): >42 mg/l



DS200 SAFETY DATA SHEET

Water Softening Salt Tablets

Skin corrosion/irritation	Not classified. May cause physical abrasion in contact with skin. Repeated or prolonged contact may result in dryness leading to mild irritation.
Serious eye damage/irritation	Not classified. May cause physical abrasion in contact with eyes. Dust may cause irritation.
Skin sensitization data	Not classified.
Respiratory sensitization data	Not classified.
Germ cell mutagenicity	Not classified.
Carcinogenicity	Not classified.
Reproductive toxicity	Not classified.
Lactation	Not classified.
STOT - single exposure	Not classified. High concentrations of dust may be irritant to the respiratory tract.
STOT - repeated exposure	Not classified. Repeated exposure by inhalation may produce adverse effects on the lungs. Repeated ingestion of excessive amounts may cause disturbance of body electrolyte and fluid balance
Aspiration hazard	Not classified.
11.2 Other information	The product is biologically inert. Large doses may result in irritation of the gastrointestinal tract leading to nausea, vomiting and diarrhea. Dehydration and congestion may occur in internal organs.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity	Low toxicity to aquatic organisms. Not classified.
Toxicity - Aquatic invertebrates	Low toxicity to invertebrates. Not classified. LC50 (Daphnia magna) (48 hour): 874 mg/l NOEC (Daphnia magna) (7 day): 354 mg/l
Toxicity - Fish	Low toxicity to fish. Not classified. LC50 Bluegill Sunfish (L. macrochirus) (96 hour): 5840 mg/l NOEC (33 days) (Fathead minnow (Pimephales promelas)): 252 mg/l
Toxicity - Algae	Not classified. EC50 (Nitzschia linearis) (120 hour(s)): 2430 mg/l EC10 (Microorganisms): 5000 mg/l
Toxicity - Sediment Compartment	Not classified.
Toxicity - Terrestrial Compartment	Not classified. Soil micro-organisms EC50 (Short term): 3296 mg/kg Soil (Dry) EC10 (Long Term): 3507 mg/kg Soil (Dry)
12.2 Persistence and Degradation	The product shows no evidence for biodegradability in water. The product shows no evidence for biodegradability in soil.



DS200 SAFETY DATA SHEET
Water Softening Salt Tablets

- 12.3 Bioaccumulative potential
The product has no potential for bioaccumulation.
- 12.4 Mobility in soil
The product is predicted to have high mobility in soil.
- 12.5 Results of PBT and vPvB assessment
Not classified as PBT or vPvB.
- 12.6 Other adverse effects
Not known.

SECTION 13: DISPOSAL CONSIDERATIONS

- 13.1 Waste treatment methods
Recover and reclaim or recycle, if practicable. Do not discharge into drains or the environment, dispose to an authorised waste collection point.
- 13.2 Additional Information
No special precautions are required for this product.

SECTION 14: TRANSPORT INFORMATION

Not classified as hazardous for transport.

- 14.1 UN number
Not applicable
- 14.2 UN proper shipping name
Not applicable
- 14.3 Transport hazard class(es)
Not applicable
- 14.4 Packing group
Not applicable
- 14.5 Environmental hazards
Not classified as a Marine Pollutant
- 14.6 Special precautions for user
Not known
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code
Not known

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
European Regulations - Authorisations and/or Restrictions On Use

Candidate List of Substances of Very High Concern for Authorisation
Not Listed

REACH: ANNEX XIV list of substances subject to authorisation
Not Listed



DS200 SAFETY DATA SHEET

Water Softening Salt Tablets

REACH: Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Not listed

Community Rolling Action Plan (CoRAP) Not listed

Regulation (EC) N° 850/2004 of the European Parliament and of the Council

on persistent organic pollutants

Regulation (EC) N° 2037/2000 on

substances that deplete the ozone layer

SEVESO SUBSTANCE

No.

(Directive 2012/18/EU)

National regulations

Germany

Wassergefährdungsklasse (WGK) Kenn-Numm : 270 WGK class 1 (official).

15.2 Chemical Safety Assessment

15.3 Inventory Status

A REACH chemical safety assessment has not been carried out.

Listed in: Australia (AICS), Canada (DSL/NDSL), China (IECSC), European Union (EINECS/ELINCS), Japan (ENCS), New Zealand Inventory (NZIoC), Philippines (PICCS), South Korea (KECI), Switzerland, Taiwan (NECI), Thailand, Turkey, United States (TSCA).

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:

1 - 16

LEGEND

Hazard Pictogram(s)

None.

Precautionary Statement(s)

None.

Acronyms

CAS : Chemical Abstracts Service

CLP : Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

DNEL : Derived No Effect Level EC : European Community

EINECS : European Inventory of Existing Commercial Chemical Substances LTEL : Long term exposure limit

PBT : Persistent, Bioaccumulative and Toxic PNEC : Predicted No Effect Concentration

REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals

STEL : Short term exposure limit STOT : Specific Target Organ Toxicity

vPvB : very Persistent and very Bioaccumulative



DS200 SAFETY DATA SHEET

Water Softening Salt Tablets

Disclaimers

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Maclin Sourcing Solutions Ltd gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Maclin Sourcing Solutions Ltd accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.