

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 05.11.2012

Revision: 03.10.2012

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

· **Product identifier**

· **Trade name:** Sodium Chloride

· **Article number:** 40-5014-60

· **CAS Number:**

7647-14-5

· **EC number:**

231-598-3

· **Registration number** 01-2119494219-28

· **Relevant identified uses of the substance or mixture and uses advised against**

As ingredient in construction chemicals; Road de-icing agent; Industrial use in the manufacture of computer, electronic and optical products, electrical equipment; Industrial manufacture and use of chemicals for textiles, leather, fur; Industrial manufacture of cosmetics; Industrial manufacture and use of water treatment chemicals; Industrial manufacture and use of pulp and paper products; Industrial use of chemicals; Industrial use as intermediate; Side product of silica compound manufacturing; Industrial use in the manufacture of electrodes; Professional use in agriculture; Adhesive agent; Filler of washing powder.

Uses advised against

Uses by consumers advised against

- Consumer use of synthetic NaCl in food and feed

Chemical product category PC 0: Other:

- Consumer use of synthetic NaCl in cosmetics

Chemical product category PC 39: Cosmetics, personal care products

· **Sector of Use**

SU0 Other

SU1 Agriculture, forestry, fishery

SU2a Mining, (without offshore industries)

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU5 Manufacture of textiles, leather, fur

SU6b Manufacture of pulp, paper and paper products

SU8 Manufacture of bulk, large scale chemicals (including petroleum products)

SU9 Manufacture of fine chemicals

SU10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys)

SU13 Manufacture of other non-metallic mineral products, e.g. plasters, cement

SU16 Manufacture of computer, electronic and optical products, electrical equipment

SU19 Building and construction work

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

SU23 Electricity, steam, gas water supply and sewage treatment

· **Product category**

PC0 Other

PC1 Adhesives, sealants

PC2 Adsorbents

PC4 Anti-Freeze and de-icing products

PC9a Coatings and paints, thinners, paint removers

PC9b Fillers, putties, plasters, modelling clay

PC12 Fertilizers

PC14 Metal surface treatment products, including galvanic and electroplating products

PC15 Non-metal-surface treatment products

PC18 Ink and toners

PC19 Intermediate

PC20 Products such as ph-regulators, flocculants, precipitants, neutralization agents

PC23 Leather tanning, dye, finishing, impregnation and care products

PC26 Paper and board dye, finishing and impregnation products: including bleaches and other processing aids

PC28 Perfumes, fragrances

PC34 Textile dyes, finishing and impregnating products; including bleaches and other processing aids

PC37 Water treatment chemicals

(Contd. on page 2)

GB

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Revision: 03.10.2012

**Trade name: Sodium Chloride**

(Contd. of page 1)

PC39 Cosmetics, personal care products

- **Process category**

PROC2 Use in closed, continuous process with occasional controlled exposure

PROC1 Use in closed process, no likelihood of exposure

PROC3 Use in closed batch process (synthesis or formulation)

PROC4 Use in batch and other process (synthesis) where opportunity for exposure arises

PROC5 Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)

PROC6 Calendering operations

PROC7 Industrial spraying

PROC8a Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities

PROC8b Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities

PROC9 Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

PROC10 Roller application or brushing

PROC11 Non industrial spraying

PROC13 Treatment of articles by dipping and pouring

PROC14 Production of preparations or articles by tableting, compression, extrusion, pelletisation

PROC15 Use as laboratory reagent

PROC19 Hand-mixing with intimate contact and only PPE available

PROC26 Handling of solid inorganic substances at ambient temperature

- **Environmental release category**

ERC1 Manufacture of substances

ERC2 Formulation of preparations

ERC3 Formulation in materials

ERC4 Industrial use of processing aids in processes and products, not becoming part of articles

ERC5 Industrial use resulting in inclusion into or onto a matrix

ERC6a Industrial use resulting in manufacture of another substance (use of intermediates)

ERC7 Industrial use of substances in closed systems

ERC8a Wide dispersive indoor use of processing aids in open systems

ERC8b Wide dispersive indoor use of reactive substances in open systems

ERC8c Wide dispersive indoor use resulting in inclusion into or onto a matrix

ERC8d Wide dispersive outdoor use of processing aids in open systems

ERC8f Wide dispersive outdoor use resulting in inclusion into or onto a matrix

ERC9b Wide dispersive outdoor use of substances in closed systems

- **Article category**

AC0 Other

AC2 Machinery, mechanical appliances, electrical/electronic articles

AC4 Stone, plaster, cement, glass and ceramic articles

- **Application of the substance / the preparation**

The greatest single use for salt is as a feedstock for the production of chemicals. It has many other uses such as in food processing and as a highway deicing agent.

- **Details of the supplier of the safety data sheet**

- **Manufacturer/Supplier:**

(Contd. on page 3)

GB

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Printing date 05.11.2012

Revision: 03.10.2012

**Trade name: Sodium Chloride**

(Contd. of page 2)

Severn Biotech Ltd.  
Unit 2,  
Park Lane,  
Kidderminster,  
Worcestershire.  
DY11 6TJ  
UK  
Tel: 0044 1562 825286  
Fax: 0044 1562 825284  
email: info@severnbiotech.com

- **Further information obtainable from:** Product safety department.
- **Emergency telephone number:** Tel: 0044 1562 825286 (not 24 hours)

## 2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
The substance is not classified according to the CLP regulation.
- 
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** Not applicable.
- 
- **Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

## 3 Composition/information on ingredients

- **Chemical characterization: Substances**
- **CAS No. Description**  
7647-14-5 Sodium chloride
- **Identification number(s)**
- **EC number:** 231-598-3

## 4 First aid measures

- **Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:**  
Check for and remove any contact lenses.  
Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:**  
Rinse out mouth and then drink plenty of water.  
If symptoms persist consult doctor.
- **Information for doctor:** Treat symptomatically and supportively.
- **Most important symptoms and effects, both acute and delayed**  
No further relevant information available.

(Contd. on page 4)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 05.11.2012

Revision: 03.10.2012

**Trade name: Sodium Chloride**

(Contd. of page 3)

- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:**  
Wear self-contained respiratory protective device.  
Wear fully protective suit.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Avoid formation of dust.  
Ensure adequate ventilation
- **Environmental precautions:** No special measures required.
- **Methods and material for containment and cleaning up:**  
Pick up mechanically.  
Send for recovery or disposal in suitable receptacles.
- **Reference to other sections** No dangerous substances are released.

### 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Prevent formation of dust.  
Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Store away from metals.
- **Further information about storage conditions:**  
Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:** Not required.
- **DNELs**  
**WORKERS**  
Acute / short-term exposure - systemic effects  
Dermal DN(M)EL  
- DNEL (Derived No Effect Level): 295.52 mg/kg bw/day  
  
Inhalation DN(M)EL  
- DNEL (Derived No Effect Level): 2068.62 mg/m<sup>3</sup>

(Contd. on page 5)

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 05.11.2012

Revision: 03.10.2012

**Trade name: Sodium Chloride**

(Contd. of page 4)

Long-term exposure - systemic effects

Dermal DN(M)EL

- DNEL (Derived No Effect Level): 295.52 mg/kg bw/day

Inhalation DN(M)EL

- DNEL (Derived No Effect Level): 2068.62 mg/m<sup>3</sup>

#### GENERAL POPULATION

Acute / short-term exposure - systemic effects

Dermal DN(M)EL

- DNEL (Derived No Effect Level): 126.65 mg/kg bw/day

Inhalation DN(M)EL

- DNEL (Derived No Effect Level): 443.28 mg/m<sup>3</sup>

Oral DN(M)EL

- DNEL (Derived No Effect Level): 126.65 mg/kg bw/day

Long-term exposure - systemic effects

Dermal DN(M)EL

- DNEL (Derived No Effect Level): 126.65 mg/kg bw/day

Inhalation DN(M)EL

- DNEL (Derived No Effect Level): 443.28 mg/m<sup>3</sup>

Oral DN(M)EL

- DNEL (Derived No Effect Level): 126.65 mg/kg bw/day

· **PNECs**

PNEC aqua (freshwater): 5 mg/L

PNEC aqua (intermittent releases): 19 mg/L

PNEC STP: 500 mg/L

PNEC soil: 4.86 mg/kg soil dw

· **Additional information:** The lists valid during the making were used as basis.

· **Exposure controls**

· **Personal protective equipment:**

Select PPE appropriate for the operations taking place taking into account the product properties.

· **General protective and hygienic measures:**

Avoid contact with the eyes.

Avoid close or long term contact with the skin.

Do not breath dust

Wash hands before breaks and at the end of work.

Do not eat, drink, smoke or sniff while working.

· **Respiratory protection:**

Use suitable respiratory protective device in case of insufficient ventilation.

Where protection from nuisance levels of dusts are desired, use type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as CEN (EU).

· **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

(Contd. on page 6)

# Safety data sheet

## according to 1907/2006/EC, Article 31

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Revision: 03.10.2012

**Trade name: Sodium Chloride**

(Contd. of page 5)

- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Safety glasses
- **Body protection:** Protective work clothing

### 9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

<b>Form:</b>	Solid
<b>Colour:</b>	White
<b>Odour:</b>	Odourless

- **pH-value (50 g/l) at 20 °C:** 6-9

- **Change in condition**

**Melting point/Melting range:** 801 °C  
**Boiling point/Boiling range:** >1000 °C

- **Flash point:** Not applicable.

- **Flammability (solid, gaseous):** Product is not flammable.

- **Danger of explosion:** Product does not present an explosion hazard.

- **Density at 20 °C:** 2.16 g/cm<sup>3</sup>

- **Bulk density at 20 °C:** 800-1600 kg/m<sup>3</sup>

- **Solubility in / Miscibility with**

**water at 20 °C:** >10000 g/l

- **Other information** No further relevant information available.

### 10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** Finely powdered metals.
- **Hazardous decomposition products:** Hydrogen chloride (HCl)

### 11 Toxicological information

- **Information on toxicological effects**

- **Acute toxicity:**

- **LD/LC50 values relevant for classification:**

Oral	LD50	>2000 mg/kg (rat)
Dermal	LD50	>10000 mg/kg (rabbit)
Inhalative	LC50/4 h	>42 mg/l (rat)

(Contd. on page 7)

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Revision: 03.10.2012

**Trade name: Sodium Chloride**

(Contd. of page 6)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.  
The substance is not subject to classification according to the latest version of the EU lists.

## 12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

EC50	>4000 mg/kg (daphnia)
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- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** Product is not expected to bioaccumulate.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**  
Smaller quantities can be disposed of with household waste.  
Contact waste processors for recycling information.  
Used, degraded or contaminated product may be classified as hazardous waste. Anyone classifying hazardous waste and determining its fate must be qualified in accordance with state and international legislation.
- **European waste catalogue**  
Waste key numbers in accordance with the European Waste catalogue (EWC) are origin-referred defined. Since this product is used in several industries, no waste key can be provided by the supplier. The waste key number should be determined in arrangement with your waste disposal partner or the responsible authority.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- |   |      |
|---|------|
| <ul style="list-style-type: none"> <li>· <b>UN-Number</b></li> <li>· <b>ADR, ADN, IMDG, IATA</b></li> </ul> | Void |
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(Contd. on page 8)

GB

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(Contd. of page 7)

· <b>UN proper shipping name</b> · <b>ADR, ADN, IMDG, IATA</b>	Void
· <b>Transport hazard class(es)</b> · <b>ADR, ADN, IMDG, IATA</b> · <b>Class</b>	Void
· <b>Packing group</b> · <b>ADR, IMDG, IATA</b>	Void
· <b>Special precautions for user</b>	Not applicable.
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	Not dangerous according to the above specifications.
· <b>UN "Model Regulation":</b>	-

#### 15 Regulatory information

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

#### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing MSDS:** Product safety department.

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