

# Sodium chloride

## Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 22/02/2012 Revision date: 21/11/2017

**S0520**

Version: 2.0

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

#### 1.1. Product identifier

Product form : Substance  
 Trade name : Sodium chloride  
 EC-No. : 231-598-3  
 CAS-No. : 7647-14-5  
 Product code : S0520  
 Formula : NaCl  
 Product group : Raw material

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

##### 1.2.1. Relevant identified uses

Main use category : Professional use  
 Industrial/Professional use spec : For professional use only. Duchefa Biochemie B.V. products are intended only for "in vitro laboratory" research purposes.

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

##### Supplier

Duchefa Biochemie B.V.  
 A. Hofmanweg 71  
 2031 BH Haarlem - The Netherlands  
 T +31(0)23-5319093 - F +31(0)23-5318027  
[info@duchefa.nl](mailto:info@duchefa.nl)

#### 1.4. Emergency telephone number

Emergency number : Supplier contact information:  
 +31(0)23-5319093 (M-F 09:00-17:00)  
 +31(0)6-30109355 (outside office hours)

| Organisation/Company  | Address   | Comment                                   |
|---|---|---|
| World Health Organization world directory of poison centres | <a href="http://apps.who.int/poisoncentres/">http://apps.who.int/poisoncentres/</a> | Consult website for a local poison centre |

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

##### Adverse physicochemical, human health and environmental effects

No additional information available

## 2.2. Label elements

### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

## 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Name : Sodium chloride

CAS-No. : 7647-14-5

EC-No. : 231-598-3

| Name            | Product identifier                        | %    |
|-----------------|---|------|
| Sodium chloride | (CAS-No.) 7647-14-5<br>(EC-No.) 231-598-3 | > 99 |

Full text of H-statements: see section 16

### 3.2. Mixtures

Not applicable

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation : Assure fresh air breathing. Seek medical attention if ill effect or irritation develops.

First-aid measures after skin contact : Wash skin with mild soap and water. Seek medical attention if ill effect or irritation develops.

First-aid measures after eye contact : Rinse with water. Seek medical attention if ill effect or irritation develops.

First-aid measures after ingestion : Rinse mouth. Seek medical attention if ill effect or irritation develops.

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

Symptoms/effects : May cause eye irritation. May cause skin irritation. Tears. Nausea. Vomiting.

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : All extinguishing media can be used.

### 5.2. Special hazards arising from the substance or mixture

No additional information available

### 5.3. Advice for firefighters

Precautionary measures fire : Do not enter fire area without proper protective equipment, including respiratory protection.

Firefighting instructions : Use water spray or fog for cooling exposed containers.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****6.1.1. For non-emergency personnel**

Protective equipment : Equip cleanup crew with proper protection.

**6.1.2. For emergency responders**

No additional information available

**6.2. Environmental precautions****6.3. Methods and material for containment and cleaning up**

Methods for cleaning up : Sweep up dry powder and dispose properly.

**6.4. Reference to other sections**

No additional information available

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Precautions for safe handling : Handle in accordance with good industrial hygiene and safety practice.

Hygiene measures : Ensure prompt removal from eyes, skin and clothing.

**7.2. Conditions for safe storage, including any incompatibilities**

Storage conditions : Store at room temperature. Store in dry, well-ventilated area. Keep container closed when not in use.

**7.3. Specific end use(s)**

For professional use only. Duchefa Biochemie B.V. products are intended only for "in vitro laboratory" research purposes.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

No additional information available

**8.2. Exposure controls****Hand protection:**

| Type   | Material             | Permeation        | Thickness (mm) | Standard |
|--------|----------------------|-------------------|----------------|----------|
| Gloves | Nitrile rubber (NBR) | 6 (> 480 minutes) | 0,11           | EN 374   |

**Eye protection:**

Safety glasses (to European standard EN 166 or equivalent)

**Skin and body protection:**

Wear suitable protective clothing

**Respiratory protection:**

Where excessive dust may result, wear approved mask. Type P1 (EN 143)

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|   |                                  |
|---|----------------------------------|
| Physical state                                | : Solid                          |
| Appearance                                    | : Crystals.                      |
| Molecular mass                                | : 58,4 g/mol                     |
| Colour  | : White.                         |
| Odour   | : Odourless.                     |
| Odour threshold                               | : No data available              |
| pH  | : 4,5 - 7 (100 g/l, 20 °C)       |
| Relative evaporation rate<br>(butylacetate=1) | : No data available              |
| Melting point                                 | : 801 °C                         |
| Freezing point                                | : No data available              |
| Boiling point                                 | : 1461 °C (1.013 hPa)            |
| Flash point                                   | : No data available              |
| Auto-ignition temperature                     | : No data available              |
| Decomposition temperature                     | : No data available              |
| Flammability (solid, gas)                     | : No data available              |
| Vapour pressure                               | : No data available              |
| Relative vapour density at 20 °C              | : No data available              |
| Relative density                              | : No data available              |
| Density                                       | : 2,17 g/cm <sup>3</sup> (20 °C) |
| Solubility                                    | : Water: 310 g/l (20 °C)         |
| Log Pow                                       | : -3                             |
| Viscosity, kinematic                          | : No data available              |
| Viscosity, dynamic                            | : No data available              |
| Explosive properties                          | : No data available              |
| Oxidising properties                          | : No data available              |
| Explosive limits                              | : No data available              |

### 9.2. Other information

Bulk density : 1140 kg/m<sup>3</sup>

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable under normal conditions of storage, handling and use.

### 10.3. Possibility of hazardous reactions

Stable under normal conditions.

### 10.4. Conditions to avoid

Moisture.

### 10.5. Incompatible materials

Alkali metals.

**10.6. Hazardous decomposition products**

No additional information available

**SECTION 11: Toxicological information****11.1. Information on toxicological effects**

Acute toxicity : Not classified

| <b>Sodium chloride (7647-14-5)</b> |                            |
|------------------------------------|----------------------------|
| LD50 oral rat                      | 3000 mg/kg                 |
| LD50 oral                          | 4000 mg/kg (mouse)         |
| LD50 dermal rabbit                 | > 10000 mg/kg              |
| LC50 inhalation rat (mg/l)         | > 42 g/m <sup>3</sup> (1h) |

Skin corrosion/irritation : Not classified  
pH: 4,5 - 7 (100 g/l, 20 °C)Serious eye damage/irritation : Not classified  
pH: 4,5 - 7 (100 g/l, 20 °C)

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

Other information : See actual entry in RTECS for complete information: VZ4725000.

**SECTION 12: Ecological information****12.1. Toxicity**

| <b>Sodium chloride (7647-14-5)</b> |   |
|------------------------------------|---|
| LC50 fish 1                        | 7650 mg/l Pimephales promelas             |
| EC50 Daphnia 1                     | 1000 mg/l EC50 48h - Daphnia magna [mg/l] |

**12.2. Persistence and degradability**

No additional information available

**12.3. Bioaccumulative potential**

| <b>Sodium chloride (7647-14-5)</b> |    |
|------------------------------------|----|
| Log Pow                            | -3 |

**12.4. Mobility in soil**

No additional information available

**12.5. Results of PBT and vPvB assessment**

No additional information available

**12.6. Other adverse effects**

No additional information available

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

Waste treatment methods : Dispose in a safe manner in accordance with local/national regulations.

**SECTION 14: Transport information**

In accordance with ADR / IATA / IMDG

| ADR                                     | IMDG          | IATA          |
|---|---------------|---------------|
| <b>14.1. UN number</b>                  |               |               |
| Not regulated                           | Not regulated | Not regulated |
| <b>14.2. UN proper shipping name</b>    |               |               |
| Not regulated                           | Not regulated | Not regulated |
| Not regulated                           | Not regulated | Not regulated |
| <b>14.3. Transport hazard class(es)</b> |               |               |
| Not regulated                           | Not regulated | Not regulated |
| Not regulated                           | Not regulated | Not regulated |
| <b>14.4. Packing group</b>              |               |               |
| Not regulated                           | Not regulated | Not regulated |
| <b>14.5. Environmental hazards</b>      |               |               |
| Not regulated                           | Not regulated | Not regulated |
| No supplementary information available  |               |               |

**14.6. Special precautions for user****. Overland transport**

Not regulated

**- Transport by sea**

Not regulated

**- Air transport**

Not regulated

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****15.1.1. EU-Regulations**

No REACH Annex XVII restrictions

Sodium chloride is not on the REACH Candidate List

Sodium chloride is not on the REACH Annex XIV List

**15.1.2. National regulations**

Ensure all national/local regulations are observed.

**Germany**

VwVwS Annex reference : Water hazard class (WGK) 1, low hazard to waters (Classification according to VwVwS, Annex 1 or 2; ID No. 270)

## Safety Data Sheet

according to Regulation (EU) 2015/830

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

**Netherlands**

SZW-lijst van kankerverwekkende stoffen : The substance is not listed

SZW-lijst van mutagene stoffen : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : The substance is not listed

**15.2. Chemical safety assessment**

No additional information available

**SECTION 16: Other information**

Indication of changes:

|     |                  |          |  |
|-----|------------------|----------|--|
| 1.4 | Emergency number | Modified |  |
| 8.2 | Hand protection  | Modified | Specified material, thickness, et cetera of gloves |
| 9.2 | Bulk density     | Added    |  |

Abbreviations and acronyms:

|       |   |
|-------|---|
| ATE   | Acute Toxicity Estimate   |
| ADR   | European Agreement concerning the International Carriage of Dangerous Goods by Road               |
| BCF   | Bioconcentration factor   |
| CLP   | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008                       |
| DPD   | Dangerous Preparations Directive 1999/45/EC   |
| DSD   | Dangerous Substances Directive 67/548/EEC   |
| IATA  | International Air Transport Association   |
| IMDG  | International Maritime Dangerous Goods  |
| LC50  | Median lethal concentration   |
| LD50  | Median lethal dose  |
| LOAEL | Lowest Observed Adverse Effect Level  |
| NOAEC | No-Observed Adverse Effect Concentration  |
| PBT   | Persistent Bioaccumulative Toxic  |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| SDS   | Safety Data Sheet   |

Data sources : ECHA (European Chemicals Agency). Supplier.

SDS Biochemicals version 2017

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*