

**Sodium Chloride**  
**Safety data sheet**  
**Reg. 1907/2006/EC**

**Edition n. 07: Jen 2021**

**1. Product and Company identification**

**1.1 Product identification**

**Chemical Formula:** NaCl

**Trade name:** Salt, common salt, rocksalt, halite, sea, solar , table salt

**IUPAC denomination:** Sodium chloride

**CAS n:** 7647-14-5

**REACH registration:** this substance is exempted from the provisions of Titles II, V and VI of Regulation 1907/2006/EC, respectively Registration of substances, Downstream users and Evaluation, respectively, in accordance with Annex V to that Regulation.

**1.2 Use of the substance**

**Use of the substance:** reagent for analysis, chemical processes, deicing salt, salt for dishwasher.

**1.3 Informations about the supplier of this MSDS**

**Company:** ITALKALI Societa Italiana Sali Alcalini S.p.A.

Via Principe Granatelli, n. 46 – 90139 PALERMO (ITALY)

Telephone n. +39 0916029111

fax n. +39 0916029200

Email: [info@italkali.com](mailto:info@italkali.com)

Web: [www.italkali.it](http://www.italkali.it)

**1.4 Emergency numbers**

**+39 0916029136-197**

**2. Hazard identification**

**2.1 Classification of the substance or mixture**

**Classification according to Regulation 1272/2008/EC:** the substance is not classified according to CLP regulation.

**Information concerning to particular hazards for human:** considered as no dangerous. Avoid inhalation, eye contact and ingestion of large amounts, which may cause respiratory tract and gastrointestinal irritation.

**2.2 Label elements**

**Labelling according to Regulation (EC) No 1272/2008:** void.

**Hazard pictograms:** void.

**Dangerous ingredients which need of labelling:** void.

**2.3 Additional hazards**

Not known.

**3. Composition/information on ingredients**

**3.1 Substance**

**Formula:** NaCl

**CAS n:** 7647-14-5

**EINECS n:** 231-598-3

**Molecular weight:** 58,45

**4. First aid measures**

**4.1 Description of first aid measures**

**General information:** no special measures required.

**After inhalation:** fresh air.

**After skin contact:** wash off with soap and plenty of water.

**After eye contact:** rinse opened eye for several minutes under running water.

**After swallowing:** drink water. Consult doctor if feeling unwell.

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

Void.

#### **4.3 Indicating the need for medical attention**

Usually it is not necessary the presence of a doctor.

### **5. Fire-fighting measures**

#### **5.1 Extinguishing media**

**Suitable extinguishing media:** use any media suitable for extinguishing surrounding fire, CO<sub>2</sub>, powder or water spray.

**Unable extinguishing media:** void.

#### **5.2 Hazardous Decomposition Products**

When heated to above 1700 C° it emits toxic fumes of Chlorine and Sodium Oxide.

#### **5.3 Advice for firefighters**

Wear appropriate protective clothing to prevent contact with skin and eyes. Wear an approved self contained breathing apparatus to prevent contact with thermal decomposition products. Containers exposed to fire should be cooled down with water.

### **6. Accidental Release Measures**

#### **6.1 Personal and Environmental precautions, protection devices in case of emergency**

**For non-emergency personnel:** avoid inhalation of dusts and provide sufficient ventilation. Wear appropriate protective clothing, as indicated in Section 8.

**For emergency personnel:** wear appropriate protective clothing, as indicated in Section 8. Avoid inhalation of dusts.

#### **6.2 Environmental precautions**

Washing with water can be made consistent with the characteristics that must be discharges into public sewers, inland and marine waters. Main parameters of the effluents regulated by Legislative Decree no. 152/06 and successive modifications and additions: Chloride as Cl<sup>-</sup> = 1.200 mg/l (not apply to discharges into the sea).

#### **6.3 Methods for cleaning up**

Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dust conditions.

#### **6.4 Reference to other sections**

Handle waste as indicated in Section 13.

### **7. Handling and Storage**

#### **7.1 Information for safety handling**

the product is not dangerous. Avoid generating dust conditions. Use with adequate ventilation.

**Hygiene measures:** wash hands after using the substance. Remove contaminated clothing before eating.

#### **7.2 Information about safety storage and incompatibilities**

Keep in a tightly closed container stored in a cool, dry and ventilated area. Without limitation.

**Information about storage with other substances:** without limitation.

### 7.3 Particular final uses

See Section 1.2.

## 8. Exposure Controls/ Personal Protection

### 8.1 Control parameters

Ingredients with limit values that requires monitoring at the workplace: none.

### 8.2 Exposure Controls

#### Personal protective equipment:

**General protective:** the usual precautionary measures are to be adhered to when handling chemicals. Indications of this MSDS are applicable just to the substance here described and when it used as indicated in Section 1.2.

**Eye protection:** chemical safety goggles.

**Protection of hands:** the selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. The glove material has to be impermeable and resistant to the product / the substance / the preparation. Selection of the gloves material on consideration of the penetration times, rates of diffusion and the degradation. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies form manufacturer to manufacturer.

**Penetration time of gloves material:** the exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Respiratory protection:** required when dusts are generated. Filter P1 for dusts.

#### Environmental controls:

Avoid to enter drainage system, surface and ground water.

## 9. Physical and Chemical Properties

### 9.1 Informations on physical and chemical properties

**Appearance:** white crystals.

**Odour:** odourless.

**Olfactory threshold:** not applicable.

**pH aqueous solutions:** 6,5 ÷ 7,5

**Melting point:** 801 °C

**Boiling point:** 1.413 °C

**Flash point:** not applicable.

**Rate of evaporation:** not applicable.

**Flammability:** not applicable.

**Upper/lower flammability or explosiveness:** not applicable.

**Vapour pressure:** not applicable.

**Vapour density:** not applicable.

**Density:** 2,1 ÷ 2,3 kg/l a 25 °C

**Relative density:** not defined.

**Water solubility:** 317 g/l a 20 °C

**Distribution coefficient n-octanol/water:** not applicable.

**Auto-ignition temperature:** not applicable.

**Decomposition temperature:** upper than 1700 °C.

**Viscosity:** not applicable.

**Explosive properties:** none.

<p><b>Oxidizing agent:</b> not applicable.</p> <p><b>9.2 Additional information</b> <b>Apparent density:</b> 1,1 ÷ 1,3 kg/l a 25 °C</p>
<p><b>10. Stability and Reactivity</b> <b>10.1 Reactivity</b> The substance has the normal reactivity of inorganic chloride.</p> <p><b>10.2 Chemical stability</b> The product has a high chemical stability under the most different conditions.</p> <p><b>10.3 Possibility of hazardous reactions</b> Hydrochloric acid and sodium sulphate are formed when concentrated sulphuric acid is added. It reacts wildly with both bromine trifluoride and lithium.</p> <p><b>10.4 Conditions to avoid</b> When heated to above decomposition temperature it emits toxic fumes of Chlorine and Sodium Oxide.</p> <p><b>10.5 Materials to be avoided</b> See Section 10.3.</p> <p><b>10.6 Hazardous decomposition products</b> Hydrogen chloride, sodium compounds. See section 5.2 in case of fire.</p>
<p><b>11. Toxicological Information</b> <b>11.1 Informations on toxicological effects</b> <b>Acute oral toxicity:</b> on the basis of available data, the classification criteria are not met. <b>Acute toxicity on the skin:</b> on the basis of available data, the classification criteria are not met. <b>Acute inhalation toxicity:</b> on the basis of available data, the classification criteria are not met. <b>Corrosion of the skin/irritation of the skin:</b> none. On the basis of available data, the classification criteria are not met. <b>Serious eye damage/irritation of eye:</b> no relevant irritating effects. On the basis of available data, the classification criteria are not met. <b>Respiratory or skin sensitization:</b> no sensitizing effects known. Data not available. <b>Germ cell mutagenicity:</b> no mutagenic suspected. On the basis of available data, the classification criteria are not met. <b>Carcinogenic effects:</b> no carcinogenic suspected. On the basis of available data, the classification criteria are not met. <b>Impairment of reproductive performance:</b> no impairment of reproductive performance suspected. On the basis of available data, the classification criteria are not met. <b>Specific target organ toxicity (STOT) – single exposition:</b> on the basis of available data, the classification criteria are not met. <b>Specific target organ toxicity (STOT) – repeated exposition:</b> on the basis of available data, the classification criteria are not met. <b>Hazards in case of inhalation:</b> data not available. <b>Immediate, delayed, chronic symptoms/effects:</b> when used and handled according to specifications, the product does not have any harmful effects to our experience and</p>

the information provided to us.

### 11.2 Other information

The product is not dangerous. No more relevant data available.

## 12. Ecological Information

### 12.1 Toxicity

No relevant data available.

### 12.2 Persistence and biodegradability

Not applicable. The methods for determining the biological degradability are not applicable to inorganic substances.

### 12.3 Potential for bioaccumulation

No relevant data available.

### 12.4 Soil Mobility

No relevant data available.

### 12.5 Results of evaluation PBT e vPvB

Not applicable.

### 12.6 Additional ecological information

Handle according to specifications and avoid to release in the environment.

Do not allow to enter water, waste water, or soil. See section 6.2.

## 13. Disposal Consideration

### 13.1 Waste treatment methods

Chemicals must be disposed of in compliance with the respective national regulation.

**Packaging:** product packaging must be disposed of in compliance with the respective national regulations.

## 14. Transport information

### 14.1 ONU number

**Road transport ADR/RID:** not applicable.

**Maritime transport IMDG:** not applicable.

**Air transport ICAO-TI e IATA-DGR:** not applicable.

**Land transport ADN:** not applicable.

### 14.2 Shipping name of ONU

**Road transport ADR/RID:** not applicable.

**Maritime transport IMDG:** not applicable.

**Air transport ICAO-TI e IATA-DGR:** not applicable.

**Land transport ADN:** not applicable.

### 14.3 Hazard classes associated with the transport

**Road transport ADR/RID:** not classified, not dangerous product.

**Maritime transport IMDG:** not classified, not dangerous product.

**Air transport ICAO-TI e IATA-DGR:** not classified, not dangerous product.

**Land transport ADN:** not classified, not dangerous product.

### 14.4 Packaging

**Road transport ADR/RID:** not applicable.

**Maritime transport IMDG:** not applicable.

**Air transport ICAO-TI e IATA-DGR:** not applicable.

**Land transport ADN:** not applicable.

### 14.5 Environmental hazard

**Road transport ADR/RID:** not classified, not dangerous product.

**Maritime transport IMDG:** not classified, not dangerous product.  
**Air transport ICAO-TI e IATA-DGR:** not classified, not dangerous product.  
**Land transport ADN:** not classified, not dangerous product.

**14.6 Special precautions for users**

Not applicable.

**14.7 Carry bulk according to Annex II of MARPOL and IBC**

Not applicable.

**15. Regulatory Information**

**15.1 Safety, health and environmental regulations/legislation specific for the substance**

Hazardous for the water. See national regulations.

**15.2 Chemical safety assessment**

A chemical safety assessment has not been carried out.

**16. Other information**

Safety data sheet reviewed under Regulation 830/2015/EC. The information contained herein are based on the present state of our knowledge. It characterized the product with regard to the appropriate safety precaution. It is valid only for the described product limitedly to its normal use. They do not guarantee any particular quality of the product.

**Abbreviations and acronyms**

IUPAC: International Union for Pure and Applied Chemistry

CAS n: Chemical Abstract Service number

REACH: Registration, Evaluation, Authorization of Chemicals

EINECS n: European Inventory of Existing Commercial Chemical Substances

PBT: Persistent Bioaccumulative and Toxic substances

vPvB: very high Persistent anche very high Bioaccumulative substances

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Roads

RID: Regulation concerning the International Carriage of Dangerous Goods by Rail

AND: International Agreement for the Transport of Dangerous Goods for Inland Water Ways

IMDG: International Maritime code for Dangerous Goods

ICAO: International Civil Aviation Organisation

IATA: International Air Transport Association

Sources

D.Lgs. 152/06 in the latest valid version

D.Lgs. 81/08 in the latest valid version

Directive 67/548/EC in the latest valid version

Regulation 1907/2006/EC of the European Parliament and of the Council of 18 December 2006, REACH

Regulation 1272/2008/EC of the European Parliament and of the Council of 16 December 2008, CLP

Commission Regulation 453/2010/EU of 20 May 2010

Commission Regulation 830/2015/EC of 28 May 2015