# Sodium Chloride

**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 |
| 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 | J.C Peacock & Co Ltd |
| Address of Supplier | Jura Terminal, North harbour, Ayr, KA8 8AE |
| Telephone: ☎ | 01292 292000 |
| E-mail | info@peacocksalt.co.uk |

### 1.4 Emergency telephone number

| | |
|---|---|
| Emergency Phone No. | +44(0)1235 239 670 (EU regional number) |
| Contact | CareChem |
| Poisons Information Service (Birmingham Centre) | +00 448 706 006 266 NHS Direct - 0845 4647 or 111 |

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**

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

Product Name Salt

Hazard Pictogram(s) None.

Signal Word(s) None.

**Salt**

Hazard Statement(s) None.

Precautionary Statement(s) None.

Additional label requirements None.

**2.3 Other hazards**

None.

**2.4 Additional Information**

None.

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

**3.1 Substances**

| HAZARDOUS INGREDIENTS | CAS No. | EC No. / REACH registration No. | %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.

## 4. 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 position comfortable 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

## 5. 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.

6. 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.

7. 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 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

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 (8hr TWA mg/kg$^3$) | 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/km$^3$ | 296 mg/kg bw/day |
| Industry – Short Term – Local effects | | | |
| Industry – Short Term – Systemic effects | | 2069 mg/km$^3$ | 296 mg/kg bw/day |
| Consumer – Long Term – Local effects | | | |
| Consumer – Long Term – Systemic effects | 127 mg/kg bw/day | 443 mg/kg$^3$ | 127 mg/kg bw/day |
| Consumer – Short term – Local effects | | | |
| Consumer – Short Term – Systemic effects | 127 mg/kg bw/day | 443 mg/kg$^3$ | 127 mg/kg bw/day |

| | |
|---|---|
| Sodium Chloride | |
| Environment | PNEC |
| Aquatic Compartment (Including Sediment) | Fresh water 5 mg/l |
| | Marine water: Not applicable<br>Intermittent releases: 19 mg/l<br>Sewage treatment plant:500 mg/l<br>Fresh water sediment (dry): N/A<br>Marine water sediment (dry): N/A |
| Terrestrial Compartment | Soil (dry) 4.86 mg/kg |
| Atmospheric Compartment | N/A |

**8.2 Exposure controls**

8.2.1. Appropriate engineering controls Ensure adequate ventilation. Atmospheric levels should be controlled in compliance with the occupational exposure limit.

**8.2.2. Personal protection equipment**

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 >= 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.

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

| | |
|---|---|
| Appearance | Crystalline Solid<br>Colour : Colourless |
| Odour | Odourless. |
| Odour threshold | Not established. |
| pH | Not applicable. |
| Melting point/freezing point | 801 °C |
| Initial boiling point and boiling range | 1461 °C |

| | |
|---|---|
| Flash Point | Not applicable. |
| Evaporation rate | Not applicable. |
| Flammability (solid, gas) | Non-flammable |
| Upper/lower flammability or explosive limits | Not applicable. |
| Vapour pressure | 1.33hPa @ 865 °C |
| Vapour density | No data available. |
| Density (g/ml) | 2.16 |
| Relative density | 2.17 |
| Solubility(ies) | Solubility (Water) : freely soluble 317 g/l @ 20 °C |
| | Solubility (Other) : Insoluble |
| Partition coefficient: n-octanol/water | Not applicable. |
| Auto-ignition temperature | Not applicable. |
| Decomposition Temperature (°C) | No data available. |
| Viscosity | Not applicable. |
| Explosive properties | Not explosive |
| Oxidising properties | Not oxidising. |

**9.2 Other information**

None

10. SECTION 10: STABILITY AND REACTIVITY

**10.1 Reactivity**

None anticipated.

**10.2 Chemical Stability**

Stable under normal conditions.

**10.3 Possibility of hazardous reactions**

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, aluminium and zinc.

**10.5 Incompatible materials** Strong oxidising agents.

**10.6 Hazardous decomposition products** None.

## 11. SECTION 11: TOXICOLOGICAL INFORMATION

**11.1 Information on toxicological effects**

| | |
|---|---|
| Acute toxicity - Ingestion | Not classified.<br>LD50 (rat): 3550 mg/kg bw<br>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 |
| Skin corrosion/irritation | Not classifie<br><br>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.<br>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.<br>High concentrations of dust may be irritant to the respiratory tract. |
| STOT - repeated exposure | Not classified.<br>Repeated exposure by inhalation may produce adverse effects on the lungs.<br><br>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 diarrhoea. Dehydration and congestion may occur in internal organs

12. SECTION 12: ECOLOGICAL INFORMATION

**12.1 Toxicity**

| | |
|---|---|
| | Low toxicity to aquatic organisms. Not classified. |
| Toxicity - Aquatic invertebrates | Low toxicity to invertebrates. Not classified.<br>LC50 (Daphnia magna) (48 hour): 874 mg/l<br>NOEC (Daphnia magna) (7 day): 354 mg/l |
| Toxicity - Fish | Low toxicity to fish. Not classified.<br>LC50 Bluegill Sunfish (L. macrochirus) (96 hour): 5840 mg/l<br>NOEC (33 days) (Fathead minnow (Pimephales promelas)): 252 mg/l |
| Toxicity - Algae | Not classified. EC50 (Nitzschia linearis) (120 hour(s)): 2430 mg/l<br>EC10 (Microorganisms): 5000 mg/l |
| Toxicity - Sediment Compartment | Not classified. |
| Toxicity - Terrestrial Compartment | Not classified.<br>Soil micro-organisms<br>EC50 (Short term): 3296 mg/kg Soil (Dry)<br>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.

**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.

13. 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.

14. 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

15. 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

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

Not listed

Regulation (EC) N° 2037/2000 on substances that deplete the ozone layer

Not listed

SEVESO SUBSTANCE (Directive 2012/18/EU)

No.

**National regulations**

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

**15.2 Chemical Safety Assessment**

A REACH chemical safety assessment has not been carried out.

**15.3 Inventory Status**

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).

16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1 - 16

**LEGEND**

Hazard Pictogram(s) None.

Precautionary Statement(s) None.

# Sodium Chloride

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