



## SAFETY DATA SHEET SODIUM CHLORIDE

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

#### 1.1. Product identifier

<b>Product name</b>	SODIUM CHLORIDE
<b>Product number</b>	20327
<b>Synonyms; trade names</b>	SALT, ROCK SALT, SALT PDV, SEA SALT, SANAL P, SUPERSEL GRADES, SALT TABLETS, BROXO 16-15, ROCK SALT WHITE, SNOW CLEAR, ROCK SALT WHITE, SALT MICROFINE, SALT AQUA DUXION 15/25, SALT BROXO 6-15, SALT WATERSOFT REGESAL GRAN, NATRIUMKLORID VACUUM COMPACTED 6-1, SALT IND K1.4-0.4, SALT BROXETTEN, SODIUM CHLORIDE (PDV) INDUSTRIAL, SEL ADOU. D'EAU AXAL PRO, SODIUM CHLORIDE (PDV) FCC ED.7, SODIUM CHLORIDE (PDV) ESCO, SALT HYDROSOFT GRAN, SALT REGENIT TABLETS, SALT IND REF STD, SUPERFINE S, SALT TABLETS CLARAMAT, SALT INDUSTRIAL K 3.2/1.5, GRITTING SALT, SOD CHLORIDE VACUUM FG ALA, AQUASOL, MARINA PLUS SALT TAB ESCO53758, SALT GRANULAR HYDROSOFT, SALT PDV IND, SALT WATERSOFTENER K 18-5, SUPRASEL MICROZO PDV, SOD CHLORIDE SUPRASEL PDV, DEAD SEA SALT MPSC2, COMPACT SALT 6/15, SALT IND K0,7/0,16 O&G, MEDIO SEA SALT, SOD CHLORIDE PDV DENDRITIC, SALT TABLETS, FINE/THIN DRY PURIFIED SALT, CALCIOSINE, ESCO PDV SALT, SODIUM CHLORIDE PH, DRILLING SALT PVD O&G, APISAL SOD CHLORIDE, SALT PELLET AQUA NATURE, SALT PELLET AQUA CLASSIC, SALT BROXO TAB, SALT MICROFINE, SEA SALT FINE, REFINED SALT 170 MICRON, SANAL P PH, SOD CHLOR SUPRASEL XFINE HNO
<b>REACH registration notes</b>	Exempt -Annex V exempted by Article 2(7)
<b>CAS number</b>	7647-14-5
<b>EC number</b>	231-598-3

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

<b>Identified uses</b>	Industrial application Pharmaceuticals
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#### 1.3. Details of the supplier of the safety data sheet

<b>Supplier</b>	Univar Solutions UK Ltd Aquarius House 6 Mid Point Business Park Bradford BD3 7AY +44 1274 267300 +44 1274 267306 SDS.EMEA@univarsolutions.com
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#### 1.4. Emergency telephone number

<b>Emergency telephone</b>	SGS - +32 (0)3 575 55 55 (24h)
<b>Sds No.</b>	20327

### SECTION 2: Hazards identification

# SODIUM CHLORIDE

## 2.1. Classification of the substance or mixture

### Classification (EC 1272/2008)

Physical hazards	Not Classified
Health hazards	Not Classified
Environmental hazards	Not Classified

## 2.2. Label elements

EC number	231-598-3
Hazard statements	NC Not Classified

## 2.3. Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Product name	SODIUM CHLORIDE
REACH registration notes	Exempt -Annex V exempted by Article 2(7)
CAS number	7647-14-5
EC number	231-598-3
Composition comments	The data shown are in accordance with the latest EC Directives.

### 3.2. Mixtures

Chemical Name	Sodium chloride
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## SECTION 4: First aid measures

### 4.1. Description of first aid measures

Inhalation	Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Rinse nose and mouth with water. Get medical attention if any discomfort continues.
Ingestion	Do not induce vomiting. Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention if any discomfort continues.
Skin contact	Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention promptly if symptoms occur after washing.
Eye contact	Remove any contact lenses and open eyelids wide apart. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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

Eye contact	May cause temporary eye irritation.
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### 4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor	No specific recommendations. Treat symptomatically.
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	The product is non-combustible. Use fire-extinguishing media suitable for the surrounding fire.
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## SODIUM CHLORIDE

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

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

**Specific hazards** When heated, vapours/gases hazardous to health may be formed. Keep upwind to avoid inhalation of gases, vapours, fumes and smoke.

**Hazardous combustion products** Thermal decomposition or combustion products may include the following substances: Chlorine. Oxides of the following substances: Sodium.

### 5.3. Advice for firefighters

**Protective actions during firefighting** Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Control run-off water by containing and keeping it out of sewers and watercourses. Contain and collect extinguishing water.

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** Avoid the spillage or runoff entering drains, sewers or watercourses. Absorb spillage with inert, damp, non-combustible material. Follow precautions for safe handling described in this safety data sheet. Collect and place in suitable waste disposal containers and seal securely. Avoid generation and spreading of dust. Keep unnecessary and unprotected personnel away from the spillage. Provide adequate ventilation. Avoid inhalation of dust and contact with skin and eyes.

### 6.2. Environmental precautions

**Environmental precautions** Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body. Avoid the spillage or runoff entering drains, sewers or watercourses.

### 6.3. Methods and material for containment and cleaning up

**Methods for cleaning up** Avoid the spillage or runoff entering drains, sewers or watercourses. Avoid generation and spreading of dust. Remove spillage with vacuum cleaner or collect with a shovel and broom, or similar. Collect and place in suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water.

### 6.4. Reference to other sections

**Reference to other sections** Wear protective clothing as described in Section 8 of this safety data sheet. Collect and dispose of spillage as indicated in Section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of dust and contact with skin and eyes. Avoid generation and spreading of dust. In case of insufficient ventilation, wear suitable respiratory equipment. Provide adequate ventilation.

**Advice on general occupational hygiene** Wash at the end of each work shift and before eating, smoking and using the toilet. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.

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

## SODIUM CHLORIDE

**Storage precautions** Store in tightly-closed, original container in a dry, cool and well-ventilated place. Avoid excessive heat for prolonged periods of time. Protect from moisture. Keep away from food, drink and animal feeding stuffs. Store away from the following materials: Acids. Alkali metals. Strong oxidising agents.

### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

#### **Ingredient comments**

No exposure limits known for ingredient(s).

#### **DNEL**

Workers - Dermal; Short term systemic effects: 295.52 mg/kg/day  
 Workers - Inhalation; Short term systemic effects: 2068.62 mg/m<sup>3</sup>  
 Workers - Dermal; Long term systemic effects: 295.52 mg/kg/day  
 Workers - Inhalation; Long term systemic effects: 2068.62 mg/m<sup>3</sup>  
 General population - Dermal; Short term systemic effects: 126.65 mg/kg/day  
 General population - Inhalation; Short term systemic effects: 443.28 mg/m<sup>3</sup>  
 General population - Oral; Short term systemic effects: 126.65 mg/kg/day  
 General population - Oral; Long term systemic effects: 126.65 mg/kg/day  
 General population - Inhalation; Long term systemic effects: 443.28 mg/m<sup>3</sup>  
 General population - Dermal; Long term systemic effects: 126.65 mg/kg/day

#### **PNEC**

Fresh water; 5 mg/l  
 Soil; 4.86 mg/kg  
 STP; 500 mg/l

### 8.2. Exposure controls

#### **Protective equipment**



#### **Appropriate engineering controls**

Provide adequate ventilation.

#### **Eye/face protection**

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Tight-fitting safety glasses. Personal protective equipment for eye and face protection should comply with European Standard EN166.

#### **Hand protection**

The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. The selected gloves should have a breakthrough time of at least 8 hours. Rubber (natural, latex). Protective gloves should have a minimum thickness of 0.6 mm. To protect hands from chemicals, gloves should comply with European Standard EN374.

#### **Other skin and body protection**

Wear appropriate clothing to prevent repeated or prolonged skin contact.

#### **Hygiene measures**

Wash at the end of each work shift and before eating, smoking and using the toilet. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Care should be taken to avoid contact with contaminants when removing contaminated clothing.

#### **Respiratory protection**

If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: Particulate filter, type P2. EN 136/140/141/145/143/149

## SODIUM CHLORIDE

### SECTION 9: Physical and chemical properties

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

<b>Appearance</b>	Solid Granules. Crystals.
<b>Colour</b>	Colourless. to White.
<b>Odour</b>	Odourless.
<b>Odour threshold</b>	No information available.
<b>pH</b>	pH (diluted solution): 6 - 9 @ 0.5%
<b>Melting point</b>	800 - 802°C
<b>Pour Point</b>	No information available.
<b>Freezing Point</b>	No information available.
<b>Initial boiling point and range</b>	1413 - 1465°C
<b>Flash point</b>	Not applicable.
<b>Evaporation rate</b>	No information available.
<b>Evaporation factor</b>	No information available.
<b>Flammability (solid, gas)</b>	No information available.
<b>Upper/lower flammability or explosive limits</b>	No information available.
<b>Other flammability</b>	No information available.
<b>Vapour pressure</b>	0 mbar @ 20°C
<b>Vapour density</b>	No information available.
<b>Relative density</b>	2.16
<b>Bulk density</b>	1050 - 1300 kg/m <sup>3</sup>
<b>Solubility(ies)</b>	Soluble in water. 310 g/l water @ 18°C
<b>Partition coefficient</b>	log Pow: -3
<b>Auto-ignition temperature</b>	No information available.
<b>Decomposition Temperature</b>	No information available.
<b>Viscosity</b>	No information available.
<b>Explosive properties</b>	No information available.
<b>Explosive under the influence of a flame</b>	No information available.
<b>Oxidising properties</b>	No information available.
<b><u>9.2. Other information</u></b>	
<b>Refractive index</b>	No information available.
<b>Particle size</b>	No information available.
<b>Molecular weight</b>	58.44
<b>Volatility</b>	No information available.

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<b>Saturation concentration</b>	No information available.
<b>Critical temperature</b>	No information available.
<b>Volatile organic compound</b>	No information available.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

**Reactivity** There are no known reactivity hazards associated with this product.

#### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures and when used as recommended.

#### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** Under normal conditions of storage and use, no hazardous reactions will occur. Will not polymerise.

#### 10.4. Conditions to avoid

**Conditions to avoid** Avoid excessive heat for prolonged periods of time. Protect from moisture.

#### 10.5. Incompatible materials

**Materials to avoid** Avoid contact with the following materials: Acids. Alkali metals. Strong oxidising agents.

#### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Chlorine. Oxides of the following substances: Sodium.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 3,500.0

**Species** Rat

**ATE oral (mg/kg)** 3,500.0

##### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub> > 10000 mg/kg, Dermal, Rat

##### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** LC<sub>50</sub> (1h) >42 mg/l, Inhalation, Dust/Mist, Rat

##### Skin corrosion/irritation

**Skin corrosion/irritation** Based on available data the classification criteria are not met.

##### Serious eye damage/irritation

**Serious eye damage/irritation** Based on available data the classification criteria are not met.

##### Respiratory sensitisation

**Respiratory sensitisation** Based on available data the classification criteria are not met.

##### Skin sensitisation

**Skin sensitisation** Based on available data the classification criteria are not met.

##### Germ cell mutagenicity

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<b>Genotoxicity - in vitro</b>	Based on available data the classification criteria are not met.
<b>Genotoxicity - in vivo</b>	Based on available data the classification criteria are not met.
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	Based on available data the classification criteria are not met.
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - fertility</b>	Based on available data the classification criteria are not met.
<b>Reproductive toxicity - development</b>	Based on available data the classification criteria are not met.
<b><u>Specific target organ toxicity - single exposure</u></b>	
<b>STOT - single exposure</b>	Based on available data the classification criteria are not met.
<b><u>Specific target organ toxicity - repeated exposure</u></b>	
<b>STOT - repeated exposure</b>	Based on available data the classification criteria are not met.
<b><u>Aspiration hazard</u></b>	
<b>Aspiration hazard</b>	Based on available data the classification criteria are not met.
<b>Inhalation</b>	Dust in high concentrations may irritate the respiratory system.
<b>Ingestion</b>	No harmful effects expected from quantities likely to be ingested by accident.
<b>Skin contact</b>	Skin irritation should not occur when used as recommended.
<b>Eye contact</b>	Particles in the eyes may cause irritation and smarting.

### SECTION 12: Ecological information

<b>Ecotoxicity</b>	Not regarded as dangerous for the environment.
<b><u>12.1. Toxicity</u></b>	
<b>Toxicity</b>	Not considered toxic to fish.
<b><u>Acute aquatic toxicity</u></b>	
<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: 6750 mg/l, Fish LC <sub>50</sub> , 96 hour: 5840 mg/l, Lepomis macrochirus (Bluegill) OECD 203 LC <sub>50</sub> , 96 hour: 10610 mg/l, Pimephales promelas (Fat-head Minnow) OECD 203 NOEC, 7 day: 4000 mg/l, Pimephales promelas (Fat-head Minnow)
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: 2024 - 4136 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	IC <sub>50</sub> , 72 hours: 3014 mg/l, Algae
<b>Acute toxicity - microorganisms</b>	IC <sub>50</sub> , : > 1000 mg/l, Activated sludge OECD 209
<b><u>Chronic aquatic toxicity</u></b>	
<b>Chronic toxicity - aquatic invertebrates</b>	LOEC, 21 day: 441 mg/l, Freshwater invertebrates Daphnia pulex NOEC, 21 day: 314 mg/l, Freshwater invertebrates Daphnia pulex

### **12.2. Persistence and degradability**

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**Persistence and degradability** Substance is inorganic.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** The product does not contain any substances expected to be bioaccumulating.

**Partition coefficient** log Pow: -3

### 12.4. Mobility in soil

**Mobility** The product is soluble in water.

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

### 12.6. Other adverse effects

**Other adverse effects** Not determined.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**General information** Waste should be treated as controlled waste. Do not puncture or incinerate, even when empty.

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

## SECTION 14: Transport information

**General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

### 14.1. UN number

Not applicable.

### 14.2. UN proper shipping name

Not applicable.

### 14.3. Transport hazard class(es)

No transport warning sign required.

### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

**Environmentally hazardous substance/marine pollutant**  
No.

### 14.6. Special precautions for user

Not applicable.

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

## SECTION 15: Regulatory information



# SODIUM CHLORIDE

## **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

### **EU legislation**

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Commission Regulation (EU) No 2015/830 of 28 May 2015.

## **15.2. Chemical safety assessment**

A chemical safety assessment has been carried out.

### **Inventories**

#### **EU - EINECS/ELINCS**

All the ingredients are listed or exempt.

#### **Canada - DSL/NDSL**

All the ingredients are listed or exempt.  
DSL

#### **US - TSCA**

All the ingredients are listed or exempt.

#### **Australia - AICS**

All the ingredients are listed or exempt.

#### **Japan - ENCS**

All the ingredients are listed or exempt.

#### **Korea - KECI**

All the ingredients are listed or exempt.

#### **China - IECSC**

All the ingredients are listed or exempt.

#### **Philippines – PICCS**

All the ingredients are listed or exempt.

#### **New Zealand - NZIOC**

All the ingredients are listed or exempt.

## **SECTION 16: Other information**

## SODIUM CHLORIDE

### Abbreviations and acronyms used in the safety data sheet

ATE: Acute Toxicity Estimate.  
 ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.  
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.  
 CAS: Chemical Abstracts Service.  
 DNEL: Derived No Effect Level.  
 IATA: International Air Transport Association.  
 IMDG: International Maritime Dangerous Goods.  
 Kow: Octanol-water partition coefficient.  
 LC<sub>50</sub>: Lethal Concentration to 50 % of a test population.  
 LD<sub>50</sub>: Lethal Dose to 50% of a test population (Median Lethal Dose).  
 PBT: Persistent, Bioaccumulative and Toxic substance.  
 PNEC: Predicted No Effect Concentration.  
 REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.  
 RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.  
 vPvB: Very Persistent and Very Bioaccumulative.  
 IARC: International Agency for Research on Cancer.  
 MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.  
 cATpE: Converted Acute Toxicity Point Estimate.  
 BCF: Bioconcentration Factor.  
 BOD: Biochemical Oxygen Demand.  
 EC<sub>50</sub>: 50% of maximal Effective Concentration.  
 LOAEC: Lowest Observed Adverse Effect Concentration.  
 LOAEL: Lowest Observed Adverse Effect Level.  
 NOAEC: No Observed Adverse Effect Concentration.  
 NOAEL: No Observed Adverse Effect Level.  
 NOEC: No Observed Effect Concentration.  
 LOEC: Lowest Observed Effect Concentration.  
 DMEL: Derived Minimal Effect Level.  
 EL50: Exposure Limit 50  
 hPa: Hectopascal  
 LL50: Lethal Loading fifty  
 OECD: Organisation for Economic Co-operation and Development  
 POW: Octanol-water partition coefficient  
 SCBA: self-contained breathing apparatus  
 STP: Sewage Treatment Plant  
 VOC: Volatile Organic Compounds

### Classification abbreviations and acronyms

Acute Tox. = Acute toxicity  
 Aquatic Acute = Hazardous to the aquatic environment (acute)  
 Aquatic Chronic = Hazardous to the aquatic environment (chronic)

### Key literature references and sources for data

Supplier's information.

### Revision comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

### Revision date

04/01/2021

### Version number

5.003

### Supersedes date

24/09/2020

### SDS number

20327

## SODIUM CHLORIDE

**SDS status**

Approved.

**Signature**

Jitendra Panchal

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