

This safety data sheet was created pursuant to the requirements of:
UK REACH Regulations (SI 2019/758 as amended)

Supersedes date 22-Apr-2023***

Revision date 03-Oct-2023

Revision Number 8

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

1.1. Product identifier

Product Code(s)	20327***
Safety data sheet number	20327***
Product Name	SODIUM CHLORIDE
EC No (EU Index No)	231-598-3***
CAS No	7647-14-5***
Synonyms	Salt, ROCK SALT, SALT PDV, SEA SALT, SANAL P, SUPERSEL GRADES, SALT TABLETS, BROXO 16-15, ROCK SALT WHITE, SNOW CLEAR, 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, 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, SEA SALT FINE, REFINED SALT 170 MICRON, SANAL P PH, SOD CHLOR SUPRASEL XFINE HNO, SODIUM CHLORIDE PE U, FINE DRY SALT FOOD N-TREATS, FINE DRY SALT FG UNTREATED, DRY SEA SALT T3 INA, SOD CHLORIDE EP, SOD CHLORIDE PH EUR USP, SOD CHLORIDE EP MCS, PDV SALT TAB, SALT MICROFINE FG, SALT EXTRAFINE FG***
Pure substance/mixture	Substance***
Molecular weight	58.44***

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

Recommended use	Industrial application Pharmaceuticals Food industry Water Treatment Intermediate Antifreeze De-Icer***
-----------------	---

1.3. Details of the supplier of the safety data sheet

Supplier

Univar Solutions UK Ltd
Aquarius House
6 Mid Point Business Park
Bradford
GBR

For further information, please contact

E-mail address SDS.EMEA@univarsolutions.com

Non-Emergency Telephone Number +44 1274 267300 / +44 1274 267306

1.4. Emergency telephone number

Emergency Telephone SGS - +32 (0)3 575 55 55 (24h)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture**

Not classified***

2.2. Label elements

Not classified***

Hazard statements

Not classified***

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients**3.1 Substances*****

Chemical name	Weight-%	EC No (EU Index No)	UK REACH registration number	Classification according to GB CLP (SI 2020/1567 as amended)	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
SODIUM CHLORIDE*** 7647-14-5	> 98 %	231-598-3***	-	-	-	-	-

Full text of H- and EUH-phrases: see section 16

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (UK REACH Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Rinse mouth thoroughly with water. Get medical attention if symptoms occur.***
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if symptoms occur.***
Skin contact	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if symptoms occur.***
Ingestion	Rinse mouth thoroughly with water. Do NOT induce vomiting. Drink plenty of water. Get medical attention if symptoms occur.***

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

Inhalation	Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough.***
Eyes	Dust contact with the eyes can lead to mechanical irritation. Redness.***
Dermal	May cause slight irritation.***
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea***

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

Note to doctors	Treat symptomatically.
-----------------	------------------------

SECTION 5: Firefighting measures**5.1. Extinguishing media**

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	Non-combustible. When heated and in case of fire, toxic vapours/gases may be formed.***
Hazardous combustion products	Carbon oxides. Hydrogen chloride. Phosgene. Chlorine. Sodium.***

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.
--	--

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Use personal protection recommended in Section 8. Avoid contact with eyes, skin and clothing. Do not breathe dust. Avoid generation of dust.***

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like. Take up mechanically, placing in appropriate containers for disposal. Do not allow run-off from fire-fighting to enter drains or water courses.***

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

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

Advice on safe handling Ensure adequate ventilation. Use personal protection recommended in Section 8. Avoid contact with eyes, skin and clothing. Do not breathe dust. Avoid generation of dust.***

General hygiene considerations Do not eat, drink or smoke when using the product. Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.***

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Protect from moisture. Keep away from water or moist air. Strong oxidising agents. Acids. Metals.***

7.3. Specific end use(s)

Specific use(s)
See section 1 for more information.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

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

Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Biological occupational exposure limits This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL) - Workers ***

Chemical name	Oral	Dermal	Inhalation
SODIUM CHLORIDE*** 7647-14-5		295.52 mg/kg bw/day [4] [6] 295.52 mg/kg bw/day [4] [7]***	2068.62 mg/m ³ [4] [6] 2068.62 mg/m ³ [4] [7]***

[4] Systemic health effects.***
 [6] Long term.***
 [7] Short term.***

Derived No Effect Level (DNEL) - General Public ***

Chemical name	Oral	Dermal	Inhalation
SODIUM CHLORIDE*** 7647-14-5	126.65 mg/kg bw/day [4] [6] 126.65 mg/kg bw/day [4] [7]***	126.65 mg/kg bw/day [4] [6] 126.65 mg/kg bw/day [4] [7]***	443.28 mg/m ³ [4] [6] 443.28 mg/m ³ [4] [7]***

[4] Systemic health effects.***
 [6] Long term.***
 [7] Short term.***

Predicted No Effect Concentration (PNEC) ***

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
SODIUM CHLORIDE*** 7647-14-5	5 mg/L***				

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
SODIUM CHLORIDE*** 7647-14-5			500 mg/L***	4.86 mg/kg soil dw***	

8.2. Exposure controls

Engineering controls No information available.

Personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). Use eye protection according to EN 166.***

Hand protection Wear suitable gloves. Gloves must conform to standard EN 374.***

Gloves			
Duration of contact	PPE - Glove material	Glove thickness	Break through time
	Wear protective nitrile rubber gloves***		

	Wear protective Neoprene™ gloves***		
--	-------------------------------------	--	--

Skin and body protection Wear appropriate clothing to prevent reasonably probable skin contact.***

Respiratory protection Use appropriate respiratory protection.***
Particulates filter conforming to EN 143. P1.***

General hygiene considerations Do not eat, drink or smoke when using the product. Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.***

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Solid***
Appearance solid granules Crystals tablet***
Colour Colourless., to, White***
Odour Odourless.***
Odour threshold No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Melting point / freezing point	800*** -*** 802*** °C***	***
Initial boiling point and boiling range	1413*** -*** 1465*** °C***	***
Flammability		No information available
Flammability Limit in Air		Not applicable***
Upper flammability or explosive limits		
Lower flammability or explosive limits		
Flash point		Not applicable***
Autoignition temperature		Not applicable***
Decomposition temperature	>*** 804***	***
pH	6 -*** 10***	***
pH (as aqueous solution)		No information available
Kinematic viscosity		Not applicable***
Dynamic viscosity		Not applicable***
Water solubility	Soluble in water***	***
Solubility(ies)		No information available

Partition coefficient	log Pow: -3***	***
Vapour pressure	2.4***	***
Relative density	2.16 - 2.17***	***
Bulk density	1000 - 1300 kg/m³***	
No information available		Relative vapour density
No information available		Particle characteristics
		Particle Size 1.293 mm***
		Particle Size
		Distribution

Explosive properties Not considered to be explosive***

Oxidising properties Does not meet the criteria for classification as oxidising***

9.2. Other information

Molecular weight 58.44***

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under recommended storage conditions. Hygroscopic.***

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Protect from moisture. Air.***

10.5. Incompatible materials

Incompatible materials Water. Strong acids. Metals. Strong oxidising agents.***

10.6. Hazardous decomposition products

Hazardous decomposition products Carbon oxides. Hydrogen chloride. Phosgene. CHLORINE. Sodium.***

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Information on likely routes of exposure****Product Information**

Inhalation Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough.***

Eye contact Dust contact with the eyes can lead to mechanical irritation.***

Skin contact May cause slight irritation.***

Ingestion May cause irritation.***

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Acute toxicity**Numerical measures of toxicity**

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
SODIUM CHLORIDE***	> 3500 mg/kg (Rat) ***	> 10000 mg/kg (Rabbit)***	> 42 mg/L (Rat) 1 h***

Delayed and immediate effects as well as chronic effects from short and long-term exposure**Skin corrosion/irritation** Based on available data the classification criteria are not met.***

SODIUM CHLORIDE (7647-14-5)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					May cause slight irritation***

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

SODIUM CHLORIDE (7647-14-5)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Dust contact with the eyes can lead to mechanical irritation***

Respiratory or skin sensitisation Based on available data the classification criteria are not met.*****Germ cell mutagenicity** Based on available data the classification criteria are not met.*****Carcinogenicity** Based on available data the classification criteria are not met.*****Reproductive toxicity** Based on available data the classification criteria are not met.*****STOT - single exposure** Based on available data the classification criteria are not met.*****STOT - repeated exposure** Based on available data the classification criteria are not met.*****Aspiration hazard** Based on available data the classification criteria are not met.*****Other adverse effects** No information available.**SECTION 12: Ecological information****12.1. Toxicity****Ecotoxicity** Not considered to be harmful to aquatic life.***

SODIUM CHLORIDE (7647-14-5)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
OECD Test No. 203: Fish, Acute Toxicity Test***	Lepomis macrochirus***	LC50***	5840 mg/L***	96 hours***	Harmless to aquatic organisms up to the tested concentration***
OECD Test No. 203: Fish,	Pimephales	LC50***	10610 mg/L***	96 hours***	Harmless to aquatic

Acute Toxicity Test***	promelas***				organisms up to the tested concentration***
OECD Test No. 203: Fish, Acute Toxicity Test***	Daphnia magna***	EC50***	1900 mg/L***	48 hours***	Harmless to aquatic organisms up to the tested concentration***
OECD Test No. 201: Freshwater Algae and Cyanobacteria, Growth Inhibition Test***	Algae***	EC50***	2430 mg/L***	120 hours***	Harmless to aquatic organisms up to the tested concentration***
OECD Test No. 209: Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)***	activated sludge***	LC50***	1000 mg/L***		Harmless to aquatic organisms up to the tested concentration***
NOEC***	Pimephales promelas***	LC50***	252 mg/L***	33 days***	
NOEC***	Daphnia pulex***	LC50***	314 mg/L***	21 days***	

12.2. Persistence and degradability

Persistence and degradability Biodegradable.***

12.3. Bioaccumulative potential

Bioaccumulation MATERIAL DOES NOT BIOACCUMULATE.***

12.4. Mobility in soil

Mobility in soil Soluble in water.***

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB.

Chemical name	PBT and vPvB assessment
SODIUM CHLORIDE***	The substance is not PBT / vPvB***

12.6. Other adverse effects

No information available.

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

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

SECTION 14: Transport information**IATA**

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	No***
14.6 Special precautions for user	
Special Provisions	None

IMDG

14.1 UN number or ID number	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	No***
14.6 Special precautions for user	
Special Provisions	None
14.7 Maritime transport in bulk according to IMO instruments	No information available

RID

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	No***
14.6 Special precautions for user	
Special Provisions	None

ADR

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	No***
14.6 Special precautions for user	
Special Provisions	None

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

Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (UK REACH - Annex XIV).

This product does not contain substances subject to restriction (UK REACH - Annex XVII).

Persistent Organic Pollutants

Not applicable

Export Notification requirements

Not applicable

Named dangerous substances per COMAH Regulations 2015 (as amended)

Not applicable

The Ozone-Depleting Substances Regulations 2015

Not applicable

The Biocidal Products Regulations 2001 (as amended)

Not applicable

The Water Environment (Water Framework Directive) (England and Wales) Regulations 2017 (as amended)

Not applicable

Poisons Act 1972 (Explosive Precursors) Regulations (as Amended)

Not applicable

International Inventories

TSCA	Contact supplier for inventory compliance status
DSL/NDL	Contact supplier for inventory compliance status
EINECS/ELINCS	Contact supplier for inventory compliance status
ENCS	Contact supplier for inventory compliance status
IECSC	Contact supplier for inventory compliance status
KECL	Contact supplier for inventory compliance status
PICCS	Contact supplier for inventory compliance status
AIIC	Contact supplier for inventory compliance status
NZIoC	Contact supplier for inventory compliance status

Legend:

TSCA	- United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL	- Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS	- European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS	- Japan Existing and New Chemical Substances
IECSC	- China Inventory of Existing Chemical Substances
KECL	- Korean Existing and Evaluated Chemical Substances
PICCS	- Philippines Inventory of Chemicals and Chemical Substances
AIIC	- Australian Inventory of Industrial Chemicals
NZIoC	- New Zealand Inventory of Chemicals

15.2. Chemical safety assessment

Chemical Safety Report	No information available
-------------------------------	--------------------------

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend Section 8: Exposure controls/personal protection

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
+	Sensitisers		
Revision Note ***Indicates updated data since last publication			

Classification procedure

Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity***	Calculation method***
Acute dermal toxicity***	Calculation method***
Acute inhalation toxicity - gas***	Calculation method***
Acute inhalation toxicity - vapour***	Calculation method***
Acute inhalation toxicity - dust/mist***	Calculation method***
Skin corrosion/irritation***	Calculation method***
Serious eye damage/eye irritation***	Calculation method***
Respiratory sensitisation***	Calculation method***
Skin sensitisation***	Calculation method***

Mutagenicity***	Calculation method***
Carcinogenicity***	Calculation method***
Reproductive toxicity***	Calculation method***
STOT - single exposure***	Calculation method***
STOT - repeated exposure***	Calculation method***
Acute aquatic toxicity***	Calculation method***
Chronic aquatic toxicity***	Calculation method***
Aspiration hazard***	Calculation method***
Ozone***	Calculation method***

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)
European Chemicals Agency (ECHA) (ECHA_API)
EPA (Environmental Protection Agency)
Acute Exposure Guideline Level(s) (AEGL(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
National Institute of Technology and Evaluation (NITE)
Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine's PubMed database (NLM PUBMED)
National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme
Organisation for Economic Co-operation and Development Screening Information Data Set
World Health Organization

Prepared By Lisa Bland***

Supersedes date 22-Apr-2023***

Revision date 03-Oct-2023

This material safety data sheet complies with the requirements of UK REACH Regulations (SI 2019/758 as amended)
Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet