

SAFETY DATA SHEET

BRITISH SALT

Version: 4.0 Date: 20 May 2021

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP)
& 2015/830

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name	Salt
Substance name	Sodium chloride
Alternative names	Vacuum salt, Compacted salt, Halite
Chemical Formula	NaCl
Trade names	Not applicable
CAS No.	7647-14-5
EINECS No.	231-598-3
REACH Registration No.	Not applicable

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

Identified Use(s)	Chemical manufacture, food industry, animal feed industry, water treatment
Uses advised against	None

1.3 Details of the supplier of the safety data sheet

Company Identification	British Salt Tata Chemicals Europe Ltd Cledford Lane Middlewich Cheshire CW10 0JP
Telephone	+44 (0)1606 839250
E-mail (competent person)	reach@tatachemicals.com
Website	https://www.british-salt.co.uk/ https://www.tatachemicalseurope.com/

1.4 Emergency telephone number

Emergency Phone No.	+44 (0) 1606 839 241	24 hours
Languages spoken	English	

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

2.1.1 Regulation (EC) No. 1272/2008 (CLP)

Not classified as hazardous for supply/use.

2.2 Label elements

Product Name	Salt
Substance name	Sodium chloride
CAS No.	7647-14-5
EINECS No.	231-598-3
Hazard Pictogram(s)	None assigned.
Signal Word(s)	None assigned.
Hazard Statement(s)	None assigned.
Precautionary Statement(s)	None assigned.
Supplemental information	None assigned.

2.3 Other hazards

High concentrations of dust may be irritant to the respiratory tract.

TATA CHEMICALS EUROPE LIMITED

Private Limited Company registered in England, Registration Number: 2607081
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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

SUBSTANCE	CAS No.	EC No.	REACH Registration No.	%W/W
Sodium chloride	7647-14-5	231-598-3	Not yet assigned in the supply chain	> 99.9

Hazardous impurities

No other components or impurities which will influence the classification of the product

Contains:

Part per million (ppm) levels of a non-toxic anti-caking additive, Sodium hexacyanoferrate (II) – E535

Part per million (ppm) levels of iodine as a nutritional supplement, potassium iodate - supplied according to customer specification

SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Self-protection of the first aider

No action should be taken involving personal risk. Use personal protective equipment as required. Ensure adequate ventilation. Avoid inhalation of dusts. Avoid contact with skin and eyes.

Inhalation

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

Skin contact

IF ON SKIN: Gently wash with plenty of soap and water. If irritation develops and persists, get medical attention.

Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

Ingestion

IF SWALLOWED: Rinse mouth. Wash out mouth with water and give 200-300 ml (half a pint) of water to drink. Do NOT induce vomiting. If you feel unwell, seek medical advice (show the label where possible).

4.2 Most important symptoms and effects, both acute and delayed

None anticipated.

4.3 Indication of any immediate medical attention and special treatment needed

Unlikely to be required but if necessary treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

As appropriate for surrounding fire.

Unsuitable extinguishing media

Do not use water jet. Direct water jet may spread the fire.

5.2 Special hazards arising from the substance or mixture

Not flammable. Combustion products: Sodium/Sodium Oxide, Hydrogen chloride gas.

5.3 Advice for firefighters

Fight fire with normal precautions from a reasonable distance. Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Keep containers cool by spraying with water if exposed to fire. Avoid run off to waterways and sewers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

No action should be taken involving personal risk. Wear appropriate personal protective equipment, avoid direct contact. Ensure adequate ventilation. Avoid

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6.2	Environmental precautions	breathing dust. Remove contaminated clothing and wash all affected areas with plenty of water. Avoid dust generation.
6.3	Methods and material for containment and cleaning up	Avoid release to the environment. Damp down to avoid dust generation. Use vacuum cleaner to collect spilt material. Recover the product where possible. Ventilate the area and wash spill site after material pick-up is complete. Transfer to a container for disposal or recovery.
6.4	Reference to other sections	See Section: 8,13

SECTION 7: HANDLING AND STORAGE

7.1	Precautions for safe handling	Ensure adequate ventilation. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Remove contaminated clothing and wash clothing before reuse. Avoid dust generation.
7.2	Conditions for safe storage, including any incompatibilities	Keep container tightly closed. Store in a cool/low-temperature, well-ventilated (dry) place away from heat and ignition sources. Control dust formation.
	Storage temperature	Keep in a cool, well ventilated place.
	Incompatible materials	Keep away from: Strong oxidising agents.
7.3	Specific end use(s)	See Section: 1.2

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1	Control parameters	
8.1.1	Occupational exposure limits	The UK HSE (EH40) recommends the following limits for dusts: 10 mg/m ³ (8hr TWA) total inhalable dust; 4 mg/m ³ (8hr TWA) total respirable dust.
8.1.2	Biological limit value	Not established
8.1.3	PNECs and DNELs	Not applicable
8.2	Exposure controls	
8.2.1	Appropriate engineering controls	Ensure adequate ventilation. Store in a cool/low-temperature, well-ventilated (dry) place away from heat and ignition sources. Atmospheric levels should be controlled in compliance with the occupational exposure limit. Ground and bond container and receiving equipment.
8.2.2	Individual protection measures, such as personal protective equipment	Keep good industrial hygiene. Wear appropriate personal protective equipment, avoid direct contact. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke at the work place. Avoid breathing dust.

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Eye/ face protection



Wear eye protection with side protection (EN166). Eyewash bottles should be available.

Skin protection



Hand protection: Wear impervious gloves (EN374). Gloves should be changed regularly to avoid permeation problems. Breakthrough time of the glove material: refer to the information provided by the gloves' producer. Protective index 6, corresponding > 480 minutes of permeation time according to EN 374.

Body protection: Wear dust-resistant protective clothing.

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Respiratory protection



Not normally required. Wear suitable respiratory protective equipment if processing involves working in areas where dusts or vapours are likely to be evolved. In case of inadequate ventilation wear respiratory protection. Recommended: EN143 Type A-P2.

Thermal hazards

Not applicable.

8.2.3 Environmental exposure controls

Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	White / colourless crystalline solid
Odour	Odourless
Odour threshold	Not applicable
pH	10.0 approx. (10% solution)
Melting point/freezing point	802°C
Initial boiling point and boiling range	1413°C
Flash point	Non-flammable
Evaporation rate	No data
Flammability (solid, gas)	Non-flammable
Upper/lower flammability or explosive limits	Non-flammable
Vapour pressure	2.4mm Hg @ 747°C
Vapour density	Not applicable
Relative density	Up to 2.165 g cm ⁻³ @20°C
Solubility(ies)	In water 35.9 g/100g @ 0°C ; 39.2 g/100g @ 100°C
Partition coefficient: n-octanol/water	Not applicable
Auto-ignition temperature	Non-flammable
Decomposition temperature	No data available
Viscosity	Not applicable (solid)
Explosive properties	Not applicable
Oxidising properties	Not applicable

9.2 Other information

None known

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	Stable under normal conditions. Reacts with – Strong sulphuric acid or Nitric acid.
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	None anticipated. Reacts with – Strong sulphuric acid or Nitric acid.
10.4 Conditions to avoid	Avoid contact with heat and ignition sources. Keep away from moisture. Avoid contact with: Strong sulphuric acid or Nitric acid (Formation of: Hydrogen chloride gas)
10.5 Incompatible materials	Keep away from: Strong oxidising agents.
10.6 Hazardous decomposition products	(Wet conditions) Corrosive to: Common metals, Iron, Aluminium and zinc Sodium/Sodium Oxide. Possible trace amounts of: Hydrogen chloride gas at temperatures in excess of 800°C.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity - Ingestion

Based upon the available data, the classification criteria are not met.
Oral LD50, rat 3000 mg/kg

Acute Toxicity - Inhalation

Based upon the available data, the classification criteria are not met.

Acute Toxicity - Skin contact

Based upon the available data, the classification criteria are not met.

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Skin corrosion/irritation	Based upon the available data, the classification criteria are not met.
Serious eye damage/irritation	Based upon the available data, the classification criteria are not met.
Respiratory or skin sensitisation	Based upon the available data, the classification criteria are not met.
Germ cell mutagenicity	Based upon the available data, the classification criteria are not met.
Carcinogenicity	Based upon the available data, the classification criteria are not met.
Reproductive toxicity	Based upon the available data, the classification criteria are not met.
STOT - single exposure	Based upon the available data, the classification criteria are not met.
STOT - repeated exposure	Based upon the available data, the classification criteria are not met.
Aspiration hazard	Based upon the available data, the classification criteria are not met.

11.2 Other information May cause vomiting and diarrhoea. The swallowing of small amounts is unlikely to have any adverse effects. Salt is an essential constituent of the diet and provides important body electrolytes and is the source of hydrochloric acid present in gastric juices. The blood stream contains nearly 1% sodium chloride. Repeated ingestion of excessive amounts may cause disturbance of body electrolyte and fluid balance.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity	Based upon the available data, the classification criteria are not met. Estimated LC50 (Substance): >100 mg/l.
12.2 Persistence and degradability	Not applicable for inorganic substances.
12.3 Bioaccumulative potential	Not applicable for inorganic substances.
12.4 Mobility in soil	Not applicable for inorganic substances.
12.5 Results of PBT and vPvB assessment	According to Annex XIII of the REACH Regulation 1907/2006/EC inorganic substances do not need to be subjected to a PBT assessment.
12.6 Other adverse effects	None known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods	Dispose of contents in accordance with local, state or national legislation. Do not allow to enter drains, sewers or watercourses. Recycle packaging.
13.2 Additional information	Avoid release to the environment. Dispose of empty containers and wastes safely.

SECTION 14: TRANSPORT INFORMATION

Not classified according to the United Nations 'Recommendations on the Transport of Dangerous Goods'.

	ADR/RID	IMDG	IATA/ICAO
14.1 UN number	None assigned.	None assigned.	None assigned.
14.2 UN proper shipping name	None assigned.	None assigned.	None assigned.
14.3 Transport hazard class(es)	None assigned.	None assigned.	None assigned.
14.4 Packing group	None assigned.	None assigned.	None assigned.
14.5 Environmental hazards	Not classified	Not classified as a Marine Pollutant.	Not classified
14.6 Special precautions for user	See Section: 2		
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	No information available.	No information available.	No information available.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture	
15.1.1 EU regulations	
Authorisations and/or restrictions on use	Not restricted
15.1.2 National regulations	

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Germany
TSCA Inventory
15.2 **Chemical Safety Assessment**

Water hazard class (WGK): 1
Listed
A REACH chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: Updated version and date. New format has been issued, all sections have been updated to include new information. Review SDS with care.

References:

Existing Safety Data Sheet (SDS),
Existing ECHA registration for Sodium chloride (CAS No. 7647-14-5).

EU Classification: This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830.

Legend

ADR	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DNEL	Derived no effect level
EU	European Union
IATA	IATA: International Air Transport Association
ICAO	ICAO: International Civil Aviation Organization
IMDG	IMDG: International Maritime Dangerous Goods
LC50	Lethal concentration at which 50% of the population is killed
LD50	Lethal dose at which 50% of the population is killed
LTEL	Long term exposure limit
PBT	PBT: Persistent, Bioaccumulative and Toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	RID: Regulations concerning the international railway transport of dangerous goods
STEL	Short term exposure limit
vPvB	vPvB: very Persistent and very Bioaccumulative
WGK	Wassergefährdungsklasse (Germany) / Water hazard class

Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

Disclaimers

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Annex to the extended Safety Data Sheet (eSDS)

Exposure Scenarios are not applicable

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