Sodium Chloride

ACCORDING TO EC-REGULATIONS 2020/878 (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	Ascott Analytical Equipment Ltd
Address of Supplier	Unit 6-8 Gerard, Lichfield Road Industrial Estate, Tamworth, Staffs, B79 7UW
Telephone: ☎	01827 318 040
E-mail	info@ascott-analytical.com

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

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2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substan

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.

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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.

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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

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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

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Sodium Chloride	
Environment	PNEC
Aquatic Compartment (Including Sediment)	Fresh water 5 mg/l
	Marine water: Not applicable Intermittent releases: 19 mg/l Sewage treatment plant:500 mg/l Fresh water sediment (dry): N/A 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 Colour : Colourless
Odour	Odourless.
Odour threshold	Not established.
pH	Not applicable.
Melting point/freezing point	801 °C

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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.

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11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity - Ingestion	Not classified. LD50 (rat): 3550 mg/kg bw 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 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. 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. High concentrations of dust may be irritant to the respiratory tract.
STOT - repeated exposure	Not classified. Repeated exposure by inhalation may produce adverse effects on the lungs. Repeated ingestion of excessive amounts may cause disturbance of body electrolyte and fluid balance.
Aspiration hazard	Not classified.

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

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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

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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.

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Precautionary Statement(s)	None.

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

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