

SAFETY DATA SHEET

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Section 1 1.IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier:

Trade Name	Description	Unit	Stock Code
	Pebbled Salt	25kg Bag	RM45

Sodium chloride, as crystalline powder, lumps, or tablets.

Various grades are available, having different levels of purity depending on their origin. White grades are the most pure, impure grades such as rock salt can be off-white to brown in colour, and contain other minerals such as clay.

Also known as Halite, or simply Salt

1.2 Use of the substance:

Many uses in manufacturing and water treatment.

1.3 Details of the supplier of the safety data sheet:

Teepol Products
Harvey Waddington,
Murray Road Orpington
Kent BR5 3QY.

E-Mail: sales@teepol.co.uk

Telephone: +44 (0)1689 877020.

Fax: +44 (0)1689 877027.

1.4 Emergency Telephone Number:

+44 (0)1689 877020 (08:00 – 16:00 Monday to Friday).

Section 2 Hazards Identification:

Not classified as hazardous.

Section 3 Composition/Information on Ingredients:

Sodium chloride, anhydrous.

CAS Number : 7647-14-5

EINECS Number : 231-598-3

Section 4 First Aid Measures:

Eyes:	Make sure to remove any contact lenses from the eyes before rinsing. Wash out thoroughly with water or saline solution while holding the eye open. Salt and salt solutions are not toxic to the eye but concentrations much above that of tears cause a stinging sensation
Skin:	Wash skin thoroughly with soap and water. Dry salt and concentrated solutions can cause withdrawal of fluid from the skin and may, on prolonged contact, produce irritation.
Inhalation:	Very high concentrations of salt dust may result in inflammations of the mucus membranes of the respiratory tract.
Ingestion:	Give water to drink.

Section 5 Fire-Fighting Measures:

Material is not combustible.

Use extinguishing media appropriate to the surrounding fire conditions.

Protective measures in Fire:

Self contained breathing apparatus and full protective clothing must be worn in case of fire

Section 6 Accidental Release Measures:

Wear appropriate protective clothing.

Do not discharge onto the ground or into watercourses.

Avoid creating dust. Sweep up or, preferably, vacuum up and collect in suitable containers for recovery or disposal. Wash affected area with large quantities of water.

Section 7 Handling and Storage:

7.1 Handling:

Avoid breathing dust. Wear dust mask if appropriate.

Handle under a local extraction system, if appropriate.

Avoid contact with skin and eyes.

7.2 Storage:

Due to its hygroscopic nature, dried vacuum salt should be stored in a dry atmosphere and away from concentrated acids. Absorbs moisture if the relative humidity is above 75%.

7.3 Specific uses:

Section 8 Exposure Controls/Personal Protection:

8.1: Exposure limit values:

Total respirable dust 4 mg/m³ TWA OEL.

Total inhalable dust 10 mg/m³ TWA OEL.

8.2 Exposure controls:

Personal protective measures as appropriate to quantity used.

Respiratory: Dust respirator.

Ventilation: Extraction hood.

Hand Protection: Rubber or plastic.

Eye protection: Goggles or face shield.

Other measures: Plastic apron, sleeves, boots – if handling large quantities.

Wash at the end of each work shift and before eating, smoking or using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated.

Section 9 Physical and Chemical Properties:

9.1 General information:

Appearance	:	Crystalline solid
Colour	:	White/off-white/brown, depending on purity
pH	:	10.0 approx. (10% solution)
Boiling Point	:	1413°C
Melting Point	:	802°C
Flammability	:	Non-flammable
Flash Point	:	Non-flammable

Explosive Properties	:	Non-flammable
Oxidising Properties	:	Non-flammable
Vapour Pressure	:	2.4mm Hg at 747°C
Density	:	2.165 g cm ⁻³ (of crystalline solid at 20°C)

Water Solubility (pure salt):	35.9 g/100g at 0 °C
	39.2 g/100g at 100 °C

9.2 Important properties:

Molecular Formula: NaCl

Section 10 Stability and Reactivity:

Chemical Stability: Stable

Conditions to avoid: Reacts with strong sulphuric acid or nitric acid to give hydrogen chloride gas.

Material to avoid: Under wet conditions can corrode many common metals, particularly iron, aluminium and zinc. Stainless steel and monel resist attack.

Hazard Decomposition Products: Trace amounts of hydrogen chloride gas may be evolved at temperatures in excess of 800°C. Contains no water of crystallisation.

Section 11 Toxicological Information:

Toxicity Data: Toxic dose LD-50 (oral rat) 3000mg/kg.

Inhalation: Dusts may be irritating.

Skin Contact: May cause slight skin irritation.

Eye Contact: Particles in the eye may cause irritation.

Ingestion: Acute and chronic toxic effects can result from the ingestion of excessive amounts of either salt or brine. Salt should not be used as an emetic to induce vomiting. High concentrations produce inflammatory reactions in the gastrointestinal tract and can cause vomiting, diarrhoea, convulsions and collapse. Less than a tablespoon of salt may severely poison an infant and sometimes prove fatal.

Section 12 Ecological Information:

A maximum value of 412 mg/l ensures the protection of all aquatic life.

Source: Water Research Centre - September 1990

96 hour LC 50 (Fish)	6750 mg/l
48 hour EC 50 (Daphnia)	2024 mg/l
72 hour IC 50 (Algae)	3014 mg/l
Daphnia Subacute	1062 mg/l
Fish Subacute	433 mg/l
BOD 5 Day	0 mg/l
COD	0 mg/l
Earthworm Toxicity	1000 mg/cm ²

Section 13 Disposal Considerations:

Disposal should be in accordance with local or state or national legislation. Avoid creating dust during transport and disposal. Landfill should be appropriate.

Section 14 Transport Information:

Not classed as hazardous for transportation.

Section 15 Regulatory Information:

Risk Phrases: Not classified

Workplace Exposure Limits; (Ref: UK EH40 – nuisance dust)

Section 16 Other Information:

Version 2 widens the description of the product to include less pure grades. No changes made to the H&S information.

The information given in this data sheet is for guidance only and does not constitute a risk assessment under the COSHH Regulations. It is provided in good faith and to the best of our knowledge, but no warranty, express or implied, is made.