



# Brown Rock Salt MSDS

## 1. Hazards Identification

Hazards	Details
General Hazards	Unlikely to cause harmful effects under normal conditions of handling and use.

## 2. First Aid Measures

Exposure Type	Action
Inhalation	Remove patient from exposure.
Skin Contact	Wash skin with water.
Eye Contact	Irrigate with eyewash solution or clean water for at least 10 minutes. Obtain medical attention if needed.
Ingestion	Rinse mouth, give 200-300ml of water. Seek medical attention if ill effects occur.
Further Treatment	Symptomatic treatment and supportive therapy as indicated.

## 3. Fire Fighting Measures

Aspect	Details
Combustibility	Non-combustible
Suitable Extinguishing Media	As appropriate for surrounding fire
Firefighting Protective Gear	No special requirements

## 4. Accidental Release Measures

Action	Details
Clean-up	Clear up spillages and transfer to a container for disposal.
Cleaning	Wash the spillage area with water.
Reporting	Alert the Environment Agency or other regulatory body for uncontrolled discharges.

## 5. Handling and Storage

Aspect	Details
Handling	Avoid eye contact and prolonged skin contact. Control dust exposure. Avoid static electricity generation.
Storage	Keep away from concentrated acids. Store outside if needed. Prevent run-off into water or vegetation.

## 6. Personal Protection and Exposure Controls

Protection	Details
Clothing & Equipment	Wear protective clothing, gloves, and eye/face protection.
Dust Mask	Approved dust mask if exposure exceeds occupational limits.
Occupational Exposure Limit	Inhalable Dust: 10 mg/m <sup>3</sup> , Respirable Dust: 4 mg/m <sup>3</sup> (UK HSE EH40)

## 7. Physical and Chemical Properties

Property	Details
Form	Crystalline solid
Colour	Brown
Odour	Odourless
Boiling Point (°C)	1413
Melting Point (°C)	802
Density (g/ml)	Up to 2.165 at 20°C
Bulk Density (g/ml)	1.2 to 1.5 approx.
Solubility in Water	Freely soluble

## 8. Stability and Reactivity

Aspect	Details
Hazardous Reactions	Reacts with concentrated acid to produce hydrogen chloride.
Reactivity with Metals	Corrodes metals like iron, aluminium, and zinc under wet conditions.

## 9. Toxicological Information

Exposure Type	Effects
Inhalation	High dust concentration may irritate the respiratory tract.
Skin Contact	May cause dryness, cracking, or dermatitis with prolonged exposure.
Eye Contact	Dust may irritate the eyes.
Ingestion	Small amounts may cause vomiting and diarrhoea.
Long-term Exposure	Excessive ingestion can disturb electrolyte and fluid balance.

## 10. Ecological Information

Aspect	Details
Environmental Fate	High mobility in soil; soluble in water. No potential for bioaccumulation.
Toxicity	Low toxicity to aquatic organisms.
Effluent Treatment Effect	Adverse effects are not expected.

## 11. Disposal Considerations

Aspect	Details
Disposal	In accordance with local, national, and European Community legislation.

## 12. Transport Information

Aspect	Details
Classification	Not classified as dangerous for transport

## 13. Regulatory Information

Aspect	Details
Classification	Not classified as dangerous for supply or use

## 14. Other Information

Uses	Details
Highways	De-icing roads