



Material Safety Datasheet

ROCK SALT

It is important that you, or any persons working for you or to whom you have supplied Rock Salt, become familiar with the information given on both pages of this datasheet before handling, using or disposing of the product.

Rock Salt

1. Identification of substance/preparation and supplier

Supplier/manufacturer: CEMEX UK Operations Ltd
CEMEX House, Evreux Way
Rugby, Warwickshire CV21 2DT
Tel: 01788 542111 (out of hours 01932 568833)
Fax: 01788 540166
www.cemex.co.uk

Substance/preparation: Rock Salt

Revision date: November 2011

Hazard information

2. Composition/information on ingredients

Rock Salt:

Approximately 94% pure salt and has a characteristic reddish-brown colour owing to the presence of marl (an insoluble clay) which is the chief impurity.

2.1 Hazardous Ingredients: None

3. Hazards identification

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

Emergency action

4. First aid measures

4.1 Eye contact:

Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 10 minutes. If symptoms develop, obtain medical attention.

4.2 Skin contact:

After repeated or prolonged skin contact, wash the skin with water.

4.3 Ingestion:

Vomiting is likely. Wash out mouth with water and give 200 – 300ml (half a pint) of water to drink. Obtain medical attention, especially if vomiting has not occurred.

4.4 Inhalation:

Unlikely to be required, but if necessary treat symptomatically.

5. Fire fighting measures

Non-flammable. Will withstand temperatures up to its melting point and beyond without decomposing. No special fire fighting procedure, extinguisher media or explosion hazard is identified.

6. Accidental release measures

6.1 Personal Precautions (See 8.2.)

6.2 Cleaning Up:

Clear up spillages. Transfer to a container for disposal. Alternatively, drench spillage with water.

6.3 Environmental Measures:

The release of dust into the environment does not constitute a significant environmental hazard.

Precautions

7. Storage & handling

7.1 Storage:

Keep away from concentrated acids. Rock salt can be stored outside. Keep away from valued vegetation.

7.2 Handling:

Avoid prolonged skin contact. Avoid inhalation of high concentrations of dust. Keep away from concentrated acids and common metals.

8. Exposure controls/personal protection

Wear suitable personal protection equipment.

8.1 Workplace exposure limits:

The following Workplace Exposure Limits (WEL's) for airborne dust are given in HSE Guidance Note EH40:

Substance	WEL	Period
Total inhalable dust	10 mg/m ³	8 hour TWA
Respirable dust	4 mg/m ³	8 hour TWA
Respirable Silica	0.1 mg/m ³	8 hour TWA

8.2 Personal protective equipment

a. Respiratory protection:

Suitable respiratory protection (HSE approved standard) should be worn to Protect against inhalation of dust.

b. Hand and skin protection:

Overalls and gloves should be used to prevent contamination of the skin.

c. Eye protection:

Eye protection to BS EN 1664-4 should be used to prevent dust entering the eyes.

Product information

9. Physical & chemical properties

9.1 Physical Data:

Physical state	Particulate
Form	Crystalline solid
Colour	Red-brown
Odour	Odourless
Viscosity	N/A
Freezing point	N/A
Boiling point	>1413°C
Melting point	>802°C
Flash point	N/A
Explosive properties	N/A
Density at 20°C	2165 g/ml
Vapour pressure	2.4 at 747°C
Specific Gravity	2.3
Water solubility	Ready soluble

10. Stability & reactivity

Conditions contributing to chemical instability: Reaction with concentrated acid will produce hydrogen chloride. Hazardous decomposition products: None.

Special precautions: Under wet conditions, will corrode many common metals, particularly iron, aluminium and zinc.

11. Toxicological information

11.1 Short Term Effects:

a. Eye Contact: High concentrations may cause irritation.

b. Skin: Dry salt and concentrated solutions will remove the natural greases from the skin resulting in dryness.

Repeated and/or prolonged contact may cause irritation.

c. Ingestion: The swallowing of small amounts is unlikely to cause any adverse effects. Excessive doses may result in irritation of the gastro-intestinal tract, leading to nausea, vomiting and diarrhoea.

d. Inhalation: High concentration of dust may be irritant to the respiratory tract.

11.2 Long Term Effects:

Chronic effects may result from the ingestion of excessive amounts of either salt or brine. Ingestion of hypertonic solutions can cause disturbance of body electrolyte and fluid balance.

12. Ecological information

12.1 Aquatic Toxicity Rating:

96 hour LC50 (Fish) 6750mg/l; 48 hour EC50 (Daphnia)

2024mg/l; 72 hour IC50 (Algae) 3014mg/l; Daphnia

Subacute 062mg/l;

Fish Subacute 433mg/l.

12.2 Persistence and Degradation: None.

12.3 Earthworm Toxicity: 1000/ug/cm².

12.4 Photodegradability: Infinite OH.

13. Disposal considerations

Disposal should be in accordance with current local and national legislation.

Additional information

14. Transport information

Not classified as hazardous for transport.

15. Regulatory information

15.1 Chemicals (Hazard Information and Packaging for Supply) Regulations.

Classification – None.

Workplace Exposure Limits – HSE Guidance note EH40.

16. Legislation and other information

• Health & Safety at Work, etc. Act 1974

• Control of Substances Hazardous to Health Regulations (COSHH) 2002

• Control of Substances Hazardous to Health (Amendment) Regulations 2004

• Environmental Protection Act 1990

• HSE Guidance Note EH40 (Workplace Exposure Limits)

• Any authorised manual on First Aid by St. John's / St.

Andrews / Red Cross

• Manual Handling Operations Regulations 1992 (as amended)

Prepared in accordance with UK REACH Competent Authority Information Leaflet 13 - REACH and SDS - May 2008.

Guidance references

Available from HMSO, HSE area offices, or local authority Environmental Health Departments:

• Workplace Exposure Limits (EH40)

• A step-by-step guide to COSHH Assessment (HS[G]97)

• An introduction to Local Exhaust Ventilation (HS[G]37)

• Respirable Crystalline Silica (EH59)

• Dust, General Principles of Protection (EH44)

• Control of Respirable Crystalline Silica in Quarries (HS[G]73)

• Respirable Crystalline Silica (EH74/2)

• Respirable Crystalline Silica (EH75)

IMPORTANT NOTES

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