

**SAFETY DATA SHEET – Rock Salt**

**1. Identification of the Substance / Mixture & Company / Undertaking**

**1.1 Product identifiers**

Product Name: Rock salt / Ground Rock Salt  
Synonyms: sodium chloride, common salt, Halite  
Brand names: Thawrox

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

Identified uses: De-icing of highways

**Details of the supplier of the safety data sheet:**

Marchington Stone Limited  
105 Buxton Road  
High Lane  
Stockport  
SK6 8DX  
☎ 01663 765000  
✉ [sales@marchington.net](mailto:sales@marchington.net)

Hours of operation:  
07:30 - 18:00 Weekdays  
08:00 - 10:00 Saturday

**1.3 Emergency phone number**

UK National Poisons Information Service 0344 892 0111 (Healthcare professionals only – 24 hours a day).

**2. Hazards Identification**

**2.1 Classification of the substance or mixture**

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

**2.2 Label elements**

The product does not need to be labelled in accordance with EC directives or respective national laws.

**2.3 Other hazards**

None.

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**3. Composition/Information on Ingredients**

**3.1 Mixtures**

Rock salt is approximately 94% pure salt and has a characteristic reddish-brown colour owing to the presence of a chief impurity – marl (an insoluble mineral).

Hazardous Ingredients			
Substance Name	EC No	CAS No:	Hazardous ingredients
Sodium chloride	231-598-3	007647-14-5	None  EC directives 93/112/EEC

**4. First Aid Measures**

**4.1 Description of first aid measures**

<u>METHOD OF CONTACT</u>	<u>IMMEDIATE ACTION</u>	<u>FURTHER ACTION</u>
Inhalation:	Remove to fresh air and allow to rest	If recovery is not rapid, obtain prompt medical attention
Skin contact:	Rinse well with water	If irritation persists, obtain prompt medical attention
Eye contact:	Thoroughly irrigate with clean water or eye wash solution, holding the eyelids apart, for at least 10 minutes  Do not rub eyes as the material is abrasive and may scratch the surface of the eye	If irritation persists, obtain prompt medical attention
Swallowing:	If material enters the mouth, do not induce vomiting Wash out mouth with water and give 200-300ml of water to drink	If feeling unwell seek medical advice

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**4.2 Most important symptoms and effects, both acute and delayed**

The product when handled in the form supplied is not dangerous for the human health.

**4.3 Indication of any immediate medical attention and special treatment needed**

No data available.

**5. Fire Fighting Measures**

**5.1 Extinguishing Media**

Rock salt is non-flammable and are not combustible.

Use extinguisher suitable for any other materials present in the surrounding fire.

**5.2 Special Exposure Hazards in Fire**

None.

**5.3 Advice for Fire Fighters**

Material will not burn and will not be affected by other extinguishing media used to fight fires that may be present in surrounding areas.

**6. Accidental Release Measures**

**6.1 Personal Precautions**

See Section 7 for guidance on handling the product.

See section 8 for guidance on exposure controls and personal protective equipment.

**6.2 Environmental Precautions**

The release of rock salt dust does not pose a significant environmental hazard.

**6.3 Methods and materials for containment and cleaning**

Clear up spillages by transfer to a container for disposal or drench with water.

Uncontrolled discharges into watercourses, ditches and drains must be IMMEDIATELY alerted to the Environment Agency or other appropriate regulatory body.

Recycle and reuse material where possible.

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**7. Handling and Storage**

**7.1 Precautions for safe handling**

Wear suitable protective clothing, gloves and eye / face protection – see section 8 for exposure controls / personal protection.

Avoid contact with eyes.

Avoid prolonged contact with skin.

Atmospheric levels should be controlled in compliance with the occupational exposure limit for dust.

Static electricity can be generated by pneumatic conveying, therefore pipes should be bonded and earthed, especially when a spark could prove hazardous.

**7.2 Conditions for safe storage**

Keep away from concentrated acids and common metals.

May be stored outside.

Take care to avoid run-off into watercourses or vegetation.

**7.3 Specific end use(s)**

No data available.

**8. Exposure Controls / Personal Protection**

**8.1 Control parameters**



Components with occupational exposure limits

Component	Exposure limit	Reference period	Basis
Respirable dust	4 mg/m <sup>3</sup>	8 hrs T.W.A	HSE Guidance Note EH40/2005 Workplace Exposure Limits
Total inhalable dust	10 mg/m <sup>3</sup>	8 hrs T.W.A	HSE Guidance Note EH40/2005 Workplace Exposure Limits
T.W.A = Time Weighted Average			

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### 8.2 Exposure controls

#### Personal Protective Equipment (PPE)

AREA OF CONTACT	PPE STANDARD FOR PROTECTION	OTHER RELEVANT INFORMATION
<b>Eyes</b> 	EN166	Goggles / safety glasses to be worn if there is a risk of product entry into eyes or if exposure above occupational exposure limit is likely
<b>Skin</b>	Impervious heavy-duty gloves to EU Directive 89/686/EEC and standard EN 374	<p>Gloves must be inspected prior to use</p> <p>Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with good practices</p> <p>Wash hands thoroughly before handling or eating any food and drink</p> <p>Use of skin barrier cream is recommended</p>
<b>Body</b>	Overalls / impervious clothing	<p>Type of protective equipment must be selected according to the prevalent conditions at the specific workplace</p> <p>Wash hands thoroughly before handling or eating any food and drink</p> <p>Use of skin barrier cream is recommended</p>
<b>Respiratory</b> 	Respirators - particulate filter type P3 or equivalent	An approved dust mask should be worn if exposure to levels above the occupational exposure limit is likely
<b>General Hygiene Measures</b> Wash hands thoroughly before & after handling or eating any food and drink		

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**9. Physical and Chemical Properties**

**9.1. Information on basic physical and chemical properties**

a	Appearance	Reddish-brown coloured crystalline solid
b	Odour	None
c	Melting point	802 <sup>o</sup> C
d	Boiling point	1413 <sup>o</sup> C
e	Flammability (solid/gas)	Non flammable
f	Density of sodium chloride	Up to 2.165 g/ml at 20 <sup>o</sup> C
g	Bulk density	1.2 – 1.5 g/ml approx.
h	Solubility	Freely soluble with some insoluble marl residue
<b>Nominal particle size range</b>		
	Thawrox 10	0- 10mm
	Thawrox 6	0 – 6mm
	Betrox	0 – 6mm

**9.2 Other safety information**

No data available

**10. Stability and Reactivity**

**10.1 Reactivity**

None expected under normal conditions.

**10.2 Chemical stability**

Stable at normal temperatures and under recommended storage and handling conditions.

**10.3 Possibility of hazardous reactions**

Reaction with concentrated acid will produce hydrogen chloride.

Under wet conditions will corrode many common metals, particularly iron, aluminium & zinc.

**10.4 Conditions to avoid**

None.

**10.5 Incompatible materials**

Concentrated acids.

**10.6 Hazardous decomposition products**

Reaction with concentrated acid will produce hydrogen chloride.

Otherwise, no hazardous decomposition products when stored and handled correctly.

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**11. Toxicological Information**

**11.1 Information on toxicological effects**

<b>Acute toxicity</b>	None
<b>Skin contact</b>	Repeated and/or prolonged contact may cause irritation
<b>Eye contact</b>	Dust may cause irritation
<b>Ingestion</b>	May cause vomiting and diarrhoea. Small amounts unlikely to cause adverse effects
<b>Inhalation</b>	High concentrations of dust may be an irritant to the respiratory tract
<b>Long term exposure</b>	Repeated ingestion of excessive amounts may cause disturbance of body electrolyte and fluid balance

**12. Ecological Information**

Usually, a high tonnage material with wide disperse use.  
 Solid with low volatility.  
 Soluble in water.

**12.1 Toxicity**

Low toxicity to aquatic organisms.  
 Adverse effect of effluent treatment would not be expected.

**12.2 Persistence and degradability**

Rock salt is resistant to degradation and will persist in the environment under normal environmental conditions.

**12.3 Bio accumulative potential**

None.

**12.4 Mobility in Soil**

Predicted to be high.

**13. Disposal Considerations**

**13.1 Waste treatment methods**

**Product:**

Not classified as Hazardous Waste, can be disposed of as normal industrial waste in line with

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local and national legislation.  
Natural aggregate content of rock salt can be readily reused or recycled.

**14. Transport Information**

Not classified as dangerous to transport.  
Open vehicles should be sheeted to avoid creation of nuisance dust and contain material.

**15. Regulatory Information**

Not classified as dangerous for supply or use.  
Prepared in accordance with the requirements of Retained REACH EU Regulation (UK)

**16. Other Information**

**16.1 Recommended restrictions on use**

Use in accordance with manufacturer’s technical instructions.

**Legal Notice**

The information in this Safety Data Sheet should be provided to those who will use, handle, store, transport or otherwise be exposed to the product. It has been prepared for the guidance of plant engineering, operations, management and for the people working with and handling the product and was believed to be correct at the time of issue. However, no guarantee or warranty is made, expressed or implied as to the accuracy or completeness of this information and Marchington Stone Ltd assume no responsibility resulting from its use.

This Safety Data Sheet is based on proper handling and anticipated uses and is for the material without chemical additions or alterations. Users should make their own investigations to determine the suitability of the information for their particular purpose. This safety data sheet does not constitute the user’s own assessment of workplace risk, and it is the user’s sole responsibility to take all necessary precautions when using this product and a suitable risk assessment / COSHH assessment should be complied prior to using this product.

If you have purchased this product for supply to a third party for use at work, it is your duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet.

Further copies of this Safety Data Sheet may be obtained from Marchington Stone Limited.

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