



## Material Safety Data Sheet

### 1. Identification of the Substance

**Product name:** White Marine Salt  
**Chemical name:** Sodium Chloride  
**CAS Number:** 007647 14 5  
**EINECS Number:** 231 598 3  
**Formula:** NaCl

### 2. Identification of company

Darlies Ltd  
Bankfields Drive, Eastham,  
South Wirral CH62 0AZ

Tel: 01513285600

### 3. Composition

White De-icing salt  
Sodium Chloride 99.9%

### 4. Physical and Chemical Properties

**Physical State** White Crystalline solid, Odourless  
**Boiling Point** 1413°C  
**Melting Point** 802°C  
**Bulk Density** 1.2 - 1.5 gm/ml  
**Density of Sodium Chloride** up to 2.165 g/ml at 20 Deg C  
**Water Solubility** Freely Soluble

### 5. Hazards Identification

**Inhalation** Very high concentration of salt dust may result in inflammation of the mucus of the respiratory tract

**Skin Contact** Dry salt and concentrated solutions can cause withdrawal of fluid from the skin. Repeated and /or prolonged skin contact may cause irritation.

**Eye Contact** Salt and salt solutions are not toxic to the eye but concentrations much above that of tears cause a stinging sensation

**Ingestion** Wash out mouth with water and give 200-300ml (half a pint) of water to drink. Obtain medical attention if ill-effects occur. Further Medical Treatment: Symptomatic treatment and supportive therapy as indicated.

### 6. First aid measures

**Inhalation** Remove patient to fresh air. Keep warm and at rest. Give drinks if required

**Ingestion** Vomiting will probably occur. Wash out mouth with water and give 200-300ml (half a pint) of water to drink. Obtain immediate medical attention especially if vomiting has not occurred.



<b>Eye Contact</b>	Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 10 minutes. If symptoms develop, obtain medical attention.
<b>Skin Contact</b>	Wash skin with plenty of water

## 7. Fire fighting measures

<b>Flammability</b>	Non-flammable
<b>Extinguishing Agents</b>	Use agents suitable for type of surrounding fire (dry chemical, CO <sub>2</sub> , water, spray or foam).
<b>Special hazards</b>	Salt withstands temperatures up to its melting point without decomposing, but at very high temperatures (greater than approximately 800°C) a vapour may be emitted which is particularly irritating to the eyes
<b>Protective equipment</b>	As applicable to the combustion products associated with fire.

## 8. Accidental release measures

<b>Personal precautions</b>	Avoid prolonged contact with the skin and inhalation of dust concentrations, otherwise normal good handling and house keeping practice is adequate. No special protective clothing is required. An eyewash bottle with clean water should be made available.
<b>Spillages</b>	<ul style="list-style-type: none"><li>• Clear up spillages.</li><li>• Transfer to a container for disposal.</li><li>• Wash the spillage area with water.</li><li>• Spillages or uncontrolled discharges into water courses, drains or sewers must be IMMEDIATELY alerted to the Environment Agency or other appropriate regulatory body</li></ul>

## 9. Handling & Storage

<b>Handling</b>	Avoid contact with eyes. Avoid prolonged skin contact. Atmospheric levels should be controlled in compliance with the occupational exposure limit for dust. 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.
<b>Storage</b>	Keep away from concentrated acids. White salt can be stored outside. Care should be taken to avoid excessive run-off into water or onto vegetation

## 10. Exposure Controls

<b>Long Term Exposure</b>	Repeated ingestion of excessive amounts may cause disturbance of body electrolyte and fluid balance.
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## 11. Personal Protection



Wear suitable protective clothing, gloves and eye/face protection. An approved dust mask should be worn if exposure to levels above the occupational exposure limit is likely.

**Occupational Exposure Standard** (UK HSE Guidance Note EH40)

<b>Time Weighted Average</b>	mg/m <sup>3</sup> (ppm)
<b>Dust (Total Inhalable Dust)</b>	10
<b>Dust (Respirable Dust)</b>	4

## 12. Stability and reactivity

<b>Chemical stability</b>	Stable
<b>Conditions to avoid</b>	Reacts with strong sulphuric acid or nitric acid to give hydrogen chloride gas
<b>Material to avoid</b>	Under wet conditions salt can corrode many common metals, particularly iron, aluminium and zinc
<b>Hazard decomposition products</b>	Trace amounts of hydrogen chloride gas can be evolved at temperatures in excess of 800°C. Does not react with alkalis at ordinary temperatures.

## 13. Toxicological information

<b>Eyes</b>	Dust may be irritating
<b>Skin</b>	Will remove the natural greases resulting in dryness, cracking and possibly dermatitis. Repeated and /or prolonged skin contact may cause irritation.
<b>Ingestion</b>	May cause vomiting and diarrhoea. The swallowing of small amounts is unlikely to cause any adverse effects.
<b>Inhalation</b>	High concentrations of dust may be an irritant to the respiratory tract.
<b>Carcinogenicity</b>	Not considered to be a carcinogen.
<b>Mutagen city</b>	Not considered to be a mutagen.
<b>Reproductive effects</b>	None identified.

## 14. Disposal considerations

Disposal should be in accordance with local or national regulations.

## 15. Transport information

Material not included in the list of substances dangerous for supply. Material not included in the list of substances dangerous for conveyance by road.

## 16. Regulatory information

User: not classified as hazardous to users.

## 17. EEC Classification



Under the classification, packaging and labelling of dangerous substances regulations, 1984, this material is not dangerous for supply or conveyan

**18 Nominal particle size range**

0-6 mm

**19 Environmental Fate and Distribution**

High tonnage material with wide disperse use. Solid with low volatility. The product is soluble in water. The product has no potential for bioaccumulation. The product is predicted to have high mobility in soil.

**20 Toxicity**

Low toxicity to aquatic organisms.

**21 Effect on Effluent Treatment**

Adverse effects would not be expected.

**22 Other Information**

**Uses: HIGHWAYS DE-ICING, ETC.**

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