

# **Material Safety Data Sheet**

## **1.** Identification of Substance

Product Name: Chemical name: CAS No: EINECS No: Formula:

Granular Salt Sodium Chloride 7647/14/5 231-598-3 NaCl

2. Identification of company

Darlingtons Group Limited Bankfields Drive, Eastham, South Wirral CH62 0AZ Tel: 0151 328 5600 Fax: 0151 328 5613

3. Composition

Granular salt Sodium Chloride 99.8%

## 4. Physical and chemical properties

White granular crystals, odourless
1413°C
801°C
0.9 - 1.1gm/ml
at 200oC 360 g/l

## 5. Hazards identification

Inhalation	Very high concentrations of salt dust may result in inflammations of the mucus membranes of the respiratory tract.
Skin contact	Dry salt and concentrated solutions can cause withdrawal of fluid from the skin and may, on prolonged contact produce 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	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. The ingestion of hypertonic solutions can cause fatal of body electrolyte and fluid balance particularly in the young and the elderly. Less than a tablespoon of salt may severely poison an infant and sometimes prove fatal.
6. First aid measures	
Inhalation	Remove patient to fresh air. Keep warm and at rest. Give drinks if desired.
Ingestion	Vomiting will probably occur. Provided that the patient is conscious give plenty of liquid to drink. Obtain immediate medical attention especially if vomiting has not occurred.
Eye contact	Irrigate with eyewash solution or water. If symptoms develop obtain medical help.
Skin contact	Wash with plenty of water.



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7. Fire fighting measures	
Flammability	Non-flammable
Extinguishing Agents	Use agents suitable for type of surrounding fire (dry
Special hazards	chemical, CO2, water, spray or foam). Salt withstands temperatures up to its melting point without
Special hazalus	decomposing, but at very high temperatures (greater than
	approximately 800°C) a vapour may be emitted which is
D	particularly irritating to the eyes.
Protective equipment	As applicable to the combustion products associated with the fire
8. Accidental release measures	
Personal precautions	Avoid prolonged contact with the skin and inhalation of dust
	concentrations, otherwise normal good handling and
	housekeeping practice is adequate. No special protective clothing is required. An eyewash bottle with clean water should be made
	available.
Spillages	Spillages should be swept up or may be safely water hosed to
	drain under normal circumstances.
9. Handling & Storage	
Handling	Salt dust is non-flammable but static electricity can be generated
	by pneumatic conveying, therefore pipes should be bonded and
	earthed, especially in environments where a spark could prove hazardous.
Storage	Due to its hygroscopic nature, salt should be stored in a dry
	atmosphere and away from concentrated acids. It will absorb
	moisture if the relative humidity is above 75%.
<b>10.</b> Exposure controls	
Occupational exposure limits	As total dust 10mg/m3 (8hr TWA)
_	As respirable dust 5mg/m3 (8hr TWA)
Dangerous exposure Engineering controls	None specified Static electricity can be generated by pneumatic conveying,
	therefore pipes should be bonded and earthed, especially in
	environments where a spark could prove hazardous.
<b>11.</b> Personal protection	
Respiratory protection	If the process is such that salt dust is generated, a disposable
·····	facemask should be worn.
Hand protection	Gloves should be worn if prolonged contact is anticipated. Dry sa
	and concentrated solutions can cause withdrawal of fluid from the skin.
Eye Protection	Wear chemical safety goggles in situations where contact with th
	eyes may occur.
Skin Protection	Skin should be washed to remove salt. Dry salt and
	concentrated solutions can cause withdrawal of fluid from the skin.
Other protective measures	An eyewash and hand washing facilities should be readily
	available.



## 12. 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 salt can corrode many common metals, particularly iron, aluminium and zinc.
Hazard decomposition products	Trace amounts of hydrogen chloride gas may be evolved at temperatures in excess of 800°C. Contains no water of crystallisation. Does not react with alkalis at ordinary temperatures.
<b>13.</b> Toxicological information	
Eyes	Dust may be irritating.
Skin	Irritation after prolonged contact.
Ingestion	Salt is an essential constituent of the diet. It provides important body electrolytes and is the source of hydrochloric acid present in the gastric juices. The blood stream contains nearly 1% sodium chloride. In normal industrial use salt is non-hazardous. LD50 3000mg/kg oral, rat
Inhalation	Dusts may be irritating.
Carcinogenicity	Not considered to be a carcinogen.
Mutagen city	Not considered to be a mutagen.
Reproductive effects	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 conveyance