

# Safety Data Sheet

## Salt (Granular/Pebbles)

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### 1 IDENTIFICATION OF CHEMICAL

Product Name: Salt Granules/Pebbles,  
Other Names: Sodium Chloride/ Aquasol

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### 2 COMPOSITION

Ingredients	wt%	CAS No.	EINECS No.
Sodium Chloride	99.9%	7647-14-5	231-598-3

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### 3 HAZARD IDENTIFICATION

Not classified as hazardous.

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### 4 FIRST AID MEASURES

**Inhalation:** Very high concentrations of salt dust may result in inflammations of the mucus membranes of the respiratory tract. Remove patient to fresh air. Keep warm and at rest. Give drinks if desired.

**Skin Contact:** Dry salt and concentrated solutions can cause withdrawal of fluid from the skin and may, on prolonged contact, produce irritation. Wash with plenty of water.

**Eye Contact:** Salt and salt solutions are not toxic to the eye but concentrations much above that of tears cause a stinging sensation. Irrigate with eyewash solution or water. If symptoms develop, obtain medical help.

**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, diarrhea, convulsions and collapse. The ingestion of hyper tonic solutions can cause fatal disturbance of body electrolyte and fluid balance particularly in the young and elderly. Less than a tablespoon of salt may severely poison an infant and sometimes prove fatal. Vomiting will probably occur. Provided the patient is conscious give plenty of liquid to drink. Obtain immediate medical attention especially if vomiting has not occurred.

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## 5 FIRE FIGHTING MEASURES

**Flammability:** Non-flammable

**Extinguishants:** Use agents suitable for type of surrounding fire (dry chemical, CO<sub>2</sub>, water spray or foam).

**Special Hazards:** Salt withstands temperatures up to its melting point and beyond without decomposing, but at very high temperatures (greater than approx 800°C) a vapour may be emitted which is particularly irritating to the eyes.

**Protective Equipment:** As applicable to the combustion products associated with the fire.

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## 6 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 available.

**Spillages:** Spillages should be swept up or may be safely water hosed to drain under normal circumstances.

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## 7 HANDLING AND 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, dried vacuum salt should be stored in a dry atmosphere and away from concentrated acids. Absorbs moisture if the relative humidity is above 75%

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## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:	8hr TWA	Authority
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As total dust	10mg/m <sup>3</sup>	
As respirable dust	4mg/m <sup>3</sup>	EH40

**General:** Static electricity can be generated by pneumatic conveying, therefore pipes should be bonded and earthed, especially in environments where a spark could prove hazardous.

**PPE: Respiratory :** If the process is such that salt dust is generated, a disposable face mask should be worn.

**Skin:** Gloves to be worn if prolonged contact is anticipated. Skin should be washed to remove salt. Dry salt and concentrated solutions can cause withdrawal of fluid from the skin.

**Eyes:** Wear chemical safety goggles in situations where contact with the eyes may occur. Eyewash and hand washing facilities should be readily available.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Crystal or small pebbles
<b>Colour:</b>	White/colourless
<b>pH:</b>	10.0 approx (10% solution)
<b>Boiling Point:</b>	1413°C
<b>Melting Point:</b>	802°C
<b>Flammability:</b>	Non flammable
<b>Vapour Pressure:</b>	2.4mm Hg at 747°C
<b>Density:</b>	2.165 g/cm <sup>3</sup> (of crystalline solid at 20°C)
<b>Water Solubility:</b>	35.6g/100g at 0°C 39.2g/100g at 100°C
<b>Viscosity:</b>	Not applicable
<b>Vapour Density:</b>	Not applicable
<b>Typical Particle Size:</b>	2-6mm

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## 10 STABILITY AND REACTIVITY

<b>Stability:</b>	Stable
<b>Conditions to avoid:</b>	Reacts with strong sulphuric acid or nitric acid to give hydrogen chloride gas.
<b>Materials to avoid:</b>	Under wet conditions can corrode many common metals, particularly iron, aluminium and zinc. Stainless steel and monel resist attack.
<b>Decomposition Products:</b>	Trace amounts of hydrogen chloride gas may be evolved at temperatures in excess of 800°C. Contains no water of crystallization. Does not react with alkalis at ordinary temperatures.

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## 11 TOXICOLOGICAL INFORMATION

Dusts may be irritating, could cause skin irritation after prolonged contact. In normal industrial use salt is not hazardous. Product not considered to be a carcinogen.

LD50 3000mg/kg oral, rat.

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## 12 ECOLOGICAL INFORMATION

96 hour	LC50 (Fish)	6750mg/l
48 hour	EC50 (Daphnia)	2024mg/l
72 hour	IC50 (Algae)	3014mg/l
Daphnia Sub acute		1062mg/l
Fish Sub acute		433mg/l
Earthworm Toxicity		1000hg/cm <sup>2</sup>

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## 13 DISPOSAL CONSIDERATIONS

Disposal should be in accordance with local or national regulations.

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## 14 TRANSPORT INFORMATION

**Shipping Name:** Sodium Chloride  
**UN No:** Not Classified  
**Primary Hazard:** Not Classified  
**Packing Group:** Not Classified  
**Hazard ID No:** Not Classified  
**Class:** Not Classified  
**EAC:** Not Classified

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## 15 REGULATORY INFORMATION

**Product Name:** Salt (Granules/Pebbles)  
**Hazard Symbol:** None  
  
**Risk Phrases:** None  
**Safety Phrases:** None

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## 16 OTHER INFORMATION

**Recommended uses and restrictions:** No further information.

**Further information sources:** No further information.

Sources of key data used to compile Safety Data Sheet.

Approved supply list. Approved carriage list, EH40, ACIGH tables.

**The data in this Safety Data Sheet has been supplied as required by the Chemicals (Hazard Identification and Packaging) Regulations 1998, as amended, for the purpose of protecting the health and safety of industrial users who are deemed capable of understanding and acting on the information provided.**

**Please ensure that it is passed to the appropriate person(s) in your company, who are capable of acting on the information.**

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