

# SALT SAFETY SHEETS

SDS 001 / C3 / 703

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## ALL TYPES OF SODIUM CHLORIDE

### 1. IDENTIFICATION OF THE SUBSTANCE

Chemical Name: Sodium Chloride  
Chemical Formula: NaCl  
Alternative Names: Sodium Chloride, Common Salt, Evaporated Salt

### 2. COMPOSITION/INFORMATION OF INGREDIENTS

Sodium 39.4% by weight  
Chlorine 60.6% by weight

Some salts are especially treated with a harmless anti-caking additive. Salt contains no water of crystallization but absorbs moisture from damp atmospheres above 75% relative humidity.

### 3. HAZARDS IDENTIFICATION

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

### 4. FIRST AID MEASURES

Skin : Wash with plenty of water.  
Eyes : Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 10 minutes. If symptoms develop, obtain medical attention  
Inhalation : Remove patient from exposure.  
Digestion : Wash out mouth with water and give 200-300ml(half a pint) of water to drink. Obtain immediate medical attention if ill –effects occur.

Further Medical Treatment: Symptomatic treatment and supportive therapy as indicated.

### 5. FIRE FIGHTING MEASURES

Non –combustible  
Extinguishing Media: As appropriate for surrounding fire  
Fire Fighting Protective Equipment: No special requirements.

### 6. ACCIDENTAL RELEASE MEASURES

Clear up spillages  
Transfer to a container for disposal  
Wash the spillage area with water

Spillages or uncontrolled discharges into watercourses, drains or sewers must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body

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### 7. HANDLING AND STORAGE

Avoid prolonged contact with the skin. Atmospheric levels should be controlled in compliance with the occupational exposure limit. 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.

Storage keep container dry. Keep away from strong acids.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Wear suitable clothing, gloves and eye/face protection. An approved dust mask should be worn if exposure to high levels of dust is likely.

LONG TERM EXPOSURE LIMIT	(8hr time weighted average)
Total Inhalable Dust	10mg/kg
Respirable Dust	4mg/kg
	(UK HSE Guidance Note EH40)

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	:	Crystals
Pure dried vacuum(PDV)	:	Free running cubic crystals mostly 0.2-0.6mm in size
Undried vacuum (UV)	:	Not free running . Contains approximately 3% moisture .
Hydrosoft Granular	:	Rounded crystals 1-3mm in size
Hydrosoft Tablets	:	Compacted Pure Dried Vacuum Salt
Colour	:	Colourless
Odour	:	Odourless
Melting Point	:	802°C
Boiling Point	:	1413°C
Density of Sodium Chloride(g/ml):	:	up to 2.165 g/ml at 20 °C
Bulk Density (g/ml)(not tablets)	:	1.2 to 1.5 approx
Solubility	:	freely soluble

### 10. STABILITY AND REACTIVITY

Hazardous Reactions :

Reactions with concentrated acid will produce hydrogen chloride. Under wet conditions, will corrode many common metals, particularly iron, aluminium and zinc.

### 11. TOXICOLOGICAL INFORMATION

Skin Will remove the natural greases resulting in dryness, cracking and possibly dermatitis. Repeated and/ or prolonged skin contact may cause irritation.

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Eyes Dust may cause irritation.

Inhalation High concentrations of salt dust may be irritant to the respiratory tract.

Ingestion May cause vomiting and diarrhoea. The swallowing of small amounts is unlikely to cause adverse effects

Long Term Exposure : Repeated ingestion of excessive amounts may cause disturbance of body electrolyte and fluid balance.

### 12. ECOLOGICAL INFORMATION

#### Environmental Fate and Distribution. :

High tonnage material used in open systems. Solid with low volatility. The product is soluble in water .The product has no potential for bioaccumulation  
The product is predicted to have mobility in soil.

Toxicity : Low toxicity to aquatic organisms

Effect on Effluent Treatment : Adverse effects would not be expected

### 13.DISPOSAL CONSIDERATIONS

Spillages should be in accordance with local, state or national legislation.

### 14.TRANSPORT CONSIDERATIONS

Not listed as Dangerous for Transport.

### 15.REGULATORY INFORMATION

Not classified as dangerous for Supply/Use.

### 16.OTHER INFORMATION

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