

## Cheetham Salt Limited Material Safety Data Sheet

# CHEETHAM SALT - STANDARD SALT RANGE

**Material Name** Sodium chloride (Salt)

**Product Names** Mermaid Sieved Coarse, Mermaid Refined Coarse, Mermaid Gourmet Salt Crystals (10kg), Saxa Sea Salt Crystals, Mermaid Flossy, Mermaid Grade 6 Salt, Mermaid Dried Fine, Mermaid Special Milled, Mermaid Pretzel Salt, Mermaid Premium Salt, Mermaid Grade 9 Salt, Mermaid Superfine Salt, Mermaid FG Premium Salt, Mermaid Brine Washed Coarse, Mermaid Crushed Coarse Salt, Mermaid Washed Fine Salt, Watersoftener Salt, Mermaid Swimming Pool Salt, Diamond Swimming Pool Salt, Sunray Swimming Pool Salt, Crown Dairy Salt, Ocean PDC Salt, Ocean Fine Salt, Antarctic Sea Salt, Bulk Crude Salt, Harvest Washed Salt, Flake Salt, Sea Salt Flakes, BP Vacuum Salt

**Company Name** Cheetham Salt Limited

**Street Address** Level 4, 565 Bourke Street, Melbourne, Victoria, 3000, Australia

**Postal Address** PO Box 16187, Collins Street West, Melbourne, Victoria 8007, Australia

**Telephone** 1800 032 046

**International Telephone** 61 3 8624 6500

**Facsimile** 1800 025 110

**International Facsimile** 61 3 8624 6505

**Hazard Classification** Not classified as hazardous according to criteria of NOHSC

**Chemical Name** Sodium chloride (Salt)

**CAS No.** 7647-14-5

**Synonyms** Salt, Solar Salt, Rock Salt, Sea Salt, Halite

**Ingredients** CAS No Proportion

Salt (sodium chloride) 7647 – 14 - 5 100%

**Swallowed** High water (or milk) intake facilitates urinary excretion. Provide liquid slowly but as much as casualty will drink. No need to induce vomiting. CAUTION: NEVER MAKE UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS. In serious cases obtain medical attention.

**Eyes** Irrigate with ample volume of water for 15 minutes. Keep eyelids well apart while rinsing and ensure no particles are lodged behind eyelids. Where irritation persists, seek medical advice.

**Skin** Wash affected areas thoroughly with water (and soap if available). Seek medical attention in event of continued irritation.

**Inhaled** Not normally a risk, but some discomfort may follow where working with dusty product. Ensure airways are clear, remove to fresh air. Allow patient to drink ample water (or milk).

**Advice To Doctor** Treat Symptomatically

## **Cheetham Salt Limited Material Safety Data Sheet**

**Fire / Explosion Hazard** Salt poses no fire or explosion hazard if involved in a fire, therefore use fire fighting procedures suitable for surrounding area. Salt is not combustible.

### **Hazards From Combustion**

#### **Products**

When heated to decomposition at a very high temperature it emits toxic fumes of chlorine & sodium oxide.

**Firefighting Details** Salt poses no fire or explosion hazard if involved in a fire, therefore use fire fighting procedures suitable for surrounding area.

**HAZCHEM Code** None Allocated

**Emergency Procedures** Recover product where practical. Contain spills to prevent release to water systems or environment.

**Containment & Cleanup** Contain spills to prevent release to water systems or environment. Recover product where practical, vacuum or sweep up remnants (avoid generating dust) & dispose of in sealed containers to licensed waste.

**UN No.** None Allocated

**Handling** Under normal circumstances no specific handling measures are required. Where prolonged contact may occur, rubber gloves, safety goggles, overalls etc. may be used for personal comfort.

**Storage** Store in a cool, dry place and away from oxidising materials. Keep containers securely sealed. Suitable containers include plastic bottles or drums, multi-ply woven plastic, other plastic, or multi wall paper bag with sealed plastic liner. Keep out of sunlight to prevent deterioration of packaging material.

**National Exposure Standards** No exposure standard allocated

**Biological Limit Values** No biological limit value allocated

### **Engineering Control**

#### **Measures**

Under normal circumstances engineering controls are not required however if use creates dust to a level that is a discomfort to workers a local exhaust system is recommended.

Structural integrity of various metals used in equipment and structures should be regularly checked as salt accelerates corrosion of most common metals (especially in damp conditions). Iron, steel, zinc and aluminium are particularly susceptible, while brass, bronze and stainless steel are fairly resistant

### **Personal Protective**

#### **Equipment**

Under normal circumstances protective wear is not required however under particularly dusty conditions a dust mask is recommended. Where prolonged contact may occur, rubber gloves, safety goggles, overalls etc. may be used for personal comfort.

### **Physical Description And Properties**

Appearance Translucent to opaque white crystals or powder

Odour Nil

Melting Point 801°C

Boiling Point 1413°C at 101.3 kPa

Vapour Pressure 1 mm Hg at 865°C

Density 2.163 gm / cc at 20°C (for solid sodium chloride)

Flashpoint / Flammability Not applicable

Solubility In Water 35.7 gm / 100 ml @ 0°C 39.12 gm / 100 ml @ 100°C

Molecular Weight 58.44

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**Chemical Stability** Stable. Slightly hygroscopic.

**Conditions To Avoid** Incompatible materials (below)

### **Hazardous Decomposition**

#### **Products**

When heated to decomposition at a very high temperature it emits toxic fumes of chlorine & sodium oxide. May evolve chlorine gas when in contact with strong acids

**Incompatibility** Bromine trifluoride, lithium, strong acids

### **Health Effects**

Acute Swallowed: May cause vomiting, diarrhea, anorexia, thirst, fever, and convulsion after excessive ingestion. Dehydration may occur in most internal organs, central nervous system may be affected resulting in confusion or coma.

Eyes Dust exposure may cause physical irritation to the eyes because of the particulate nature of the product.

Skin Abrasive irritant to some sensitive persons, or when applied to open cuts & abrasions. Intensive exposure may result in dermatitis.

Inhaled Abrasive irritant to mucous membranes. May give salty taste or cause irritation to nose & throat. Symptoms could be coughing, sore and dry throat.

Chronic There is no consensus in the scientific community about the relationship between salt and hypertension / elevated blood pressure. Some medical practitioners believe that high levels of salt can cause hypertension, but there is no evidence that this is so in healthy, normotensive people. There is evidence however that severe salt restriction can lower blood pressure in one third to one half of individuals with hypertension. It is therefore best assessed on an individual basis.

Toxicity Data Orally in rats LD 50 = 3000 mg/kg

Orally in humans TDLO = 12357 mg/kg

**Ecotoxicity** No information available

**Disposal** Contain spills to prevent release to water systems or environment. Recover product where practical, vacuum or sweep up remnants (avoid generating dust) & dispose of in sealed containers to licensed waste.

**Transport** During transport, should be covered to prevent rain or physical damage. Keep dry.

**UN Number** None allocated

**Shipping Name** None allocated

**Class & Subsidiary Risk** None allocated

**Packing Group** None allocated

**Hazchem Code** None allocated

Considered naturally occurring chemical by AICS (Australian Inventory of Chemical Substances) when used industrially.

## **Cheetham Salt Limited Material Safety Data Sheet**

Business Hours Phone 1800 032 046 International 61 3 8624 6500

Business Hours Fax 1800 025 110 International 61 3 8624 6505

**Note** The information contained herein is derived from a variety of sources and standards published internationally. Cheetham Salt has taken all care to ensure that the information is accurate. Safety levels are not 'no effect' levels and therefore do not guarantee protection to every worker. Given the nature of biological variation, a small proportion of workers exposed to a particular chemical may react at or below levels prescribed.

This information is not to be construed as a warranty. Although strict quality control is exercised during the manufacture of these products, as the manufacturer does not control transportation, storage, handling or use of these products we assume no liability resulting from their use. No guarantee is given as to the suitability, performance, effects or results of the use of these products. Customers should make their own judgements and tests as to the products characteristics and performance in the context of intended use.

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