



## MATERIAL SAFETY DATA SHEET



# TITAN BIOTECH LIMITED

Corp. Office: A-2/3,303-305 Lusa Tower, Azadpur, Comm. Complex, Delhi, India.  
Customer Care Cell: 91-11-27674615, [customercare@titanbiotechltd.com](mailto:customercare@titanbiotechltd.com)

## SODIUM CHORIDE, EXTRA PURE

### Section 1: Chemical Product Identification

**Product Name:** SODIUM CHLORIDE, EXTRA PURE.

**Product Code:** 215.

**CAS#:** 7647-14-5.

**Synonym:** Common Salt; Sea Salt.

**Chemical Name:** Sodium Chloride.

**Chemical Formula:** NaCl.

**Formula Weight:** 58.44.

### Section 2: Composition and Information on Ingredients

**Composition:**

**Name:** Sodium Chloride.

**Toxicological Data on Ingredients:** Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008. This substance is not classified as dangerous according to Directive 67/548/EEC.

### Section 3: Hazards Identification

**Potential Acute Health Effects:** Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

**Potential Chronic Health Effects:**

**CARCINOGENIC EFFECTS:** Not Available.

**MUTAGENIC EFFECTS:** May affect genetic material. Mutagenic effects in mammalian somatic cells. Mutations in microorganisms.

**TERATOGENIC EFFECTS:** Not Available.

**DEVELOPMENTAL TOXICITY:** Not Available. Repeated or prolonged exposure is not known to aggravate medical condition.

### Section 4: First Aid Measures

**Eye Contact:** Flush eyes with water as a precaution.

**Skin Contact:** Wash off with soap and plenty of water.

**Serious Skin Contact:** Not Available.

**Inhalation:** If breathed in, move person into fresh air. If not breathing, give artificial respiration.

**Serious Inhalation:** Not Available.

**Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water.

**Serious Ingestion:** Not available.



# MATERIAL SAFETY DATA SHEET

## Section 5: Fire and Explosion Data

**Flammability of the Product:** Non-flammable.

**Auto-Ignition Temperature:** Not Available.

**Flash Points:** Not Applicable.

**Flammable Limits:** Not Applicable.

**Products of Combustion:** Hydrogen chloride gas, Sodium oxides.

**Fire Hazards in Presence of Various Substances:** Not Available.

**Explosion Hazards in Presence of Various Substances:**

**Risks of explosion of the product in presence of mechanical impact:** Not Available.

**Fire Fighting Media and Instructions:**

**SMALL FIRE:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**LARGE FIRE:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special Remarks on Fire Hazards:** When heated to decomposition it emits acrid smoke and irritating fumes.

**Special Remarks on Explosion Hazards:** Not Available.

## Section 6: Accidental Release Measures

**Small Spill:** Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

**Large Spill:** Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

## Section 7: Handling and Storage

**Precautions:** Do not ingest. Do not breathe dust. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, acids.

**Storage:** Keep container tightly closed. Keep container in a cool, well-ventilated area. Hygroscopic.

## Section 8: Exposure Controls/Personal Protection

**Engineering Controls:**

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**Personal Protection:** Safety glasses, Lab coat, Dust respirator, Gloves. Be sure to use an approved/certified respirator or equivalent.

**Personal Protection in Case of a Large Spill:**

Splash goggles, Full suit, Dust respirator, Boots, Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

**Exposure Limits:** Not Available.

## Section 9: Physical and Chemical Properties

**Physical state and appearance:** Solid, powder.

**Odor:** Odourless.

**Taste:** Saline.

**Molecular Weight:** 58.44.

**Color:** Colourless.



## MATERIAL SAFETY DATA SHEET

**pH:** Not Available.

**Boiling Point:** 1413 °C.

**Melting Point:** 801°C.

**Critical Temperature:** Not available.

**Relative Density:** ca. 2.16.

**Vapor Pressure:** Not applicable.

**Vapor Density:** Not available.

**Volatility:** Not available.

**Odor Threshold:** Not available.

**Water/Oil Dist. Coeff.:** Not available.

**Ionicity (in Water):** Not available.

**Dispersion Properties:** Not available

**Solubility:** Soluble in water.

### Section 10: Stability and Reactivity Data

**Stability:** The product is chemically stable under standard ambient conditions (room temperature).

**Instability Temperature:** Not available.

**Conditions of Instability:** Incompatible materials, Moisture. Stable in dry air, but slowly decomposes in moist air.

**Incompatibility with various substances:** Reactive with acids, metals and oxidizing agents.

**Special Remarks on Reactivity:** Electrolysis of sodium chloride in presence of nitrogenous compounds to produce chlorine may lead to formation of explosive nitrogen trichloride. Potentially explosive reaction with dichloromaleic anhydride + urea.

**Special Remarks on Corrosivity:** Not available.

**Polymerization:** Hazardous polymerization does not occur.

### Section 11: Toxicological Information

**Routes of Entry:** Inhalation, Ingestion.

**Toxicity to Animals:**

**LD<sub>50</sub>:** Oral – rat – 3550 mg/kg

Dermal – rabbit – > 10000 mg/kg

**LC<sub>50</sub>:** Inhalation – rat – 1 h - > 42000 mg/m<sub>3</sub>

Lepomis macrochirus (Bluegill) – 5840 mg/L - 96 h

**Chronic Effects on Humans:** Not Available.

**Other Toxic Effects on Humans:** Not Available.

**Special Remarks on Toxicity to Animals:** Not Available.

**Special Remarks on Chronic Effects on Humans:** Not Available.

**Special Remarks on other Toxic Effects on Humans:** Not Available.

### Section 12: Ecological Information

**Ecotoxicity:** Not Available.

**BOD and COD:** Not Available.

**Products of Biodegradation:** Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of the Products of Biodegradation:** Not Available.

**Special Remarks on the Products of Biodegradation:** Not Available.



# MATERIAL SAFETY DATA SHEET

## **Section 13: Disposal Considerations**

### **Waste Disposal:**

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

## **Section 14: Transport Information**

**DOT Classification:** Not a DOT controlled material (United States).

**Identification:** Not applicable.

**Special Provisions for Transport:** Not applicable.

## **Section 15: Other Regulatory Information**

**Federal and State Regulations:** TSCA 8(b) inventory: Sodium Chloride.

**Other Regulations:** Not available.

**Other Classifications:**

**WHMIS (Canada):** Not controlled under WHMIS (Canada).

**DSCL (EEC):** This product is not classified according to the EU regulations.

**HMS (U.S.A.):**

**Health Hazard:** 1

**Fire Hazard:** 0

**Reactivity:** 0

**Personal Protection:** E

**National Fire Protection Association (U.S.A.):**

**Health:** 1

**Flammability:** 0

**Reactivity:** 0

**Specific hazard:** Not Available.

**Protective Equipment:** Gloves, Lab coat, Safety glasses, Dust respirator - be sure to use an approved/certified respirator or equivalent.

## **Section 16: Other Information**

**References:** Full text of H AND R-Statements.

Not Applicable.

**Other Special Considerations:** Not available.

### **Disclaimer:**

\*\*\*\*\*

**TITAN BIOTECH LTD. PROVIDES THE INFORMATION CONTAINED HEREIN IN GOOD FAITH BUT MAKES NO REPRESENTATION AS TO ITS COMPREHENSIVENESS OR ACCURACY. THIS DOCUMENT IS INTENDED ONLY AS A GUIDE TO THE APPROPRIATE PRECAUTIONARY HANDLING OF THE MATERIAL BY A PROPERLY TRAINED PERSON USING THIS PRODUCT. INDIVIDUALS RECEIVING THE INFORMATION MUST EXERCISE THEIR INDEPENDENT JUDGMENT IN DETERMINING ITS APPROPRIATENESS FOR A PARTICULAR PURPOSE. TITAN BIOTECH LTD. MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, TITAN BIOTECH LTD WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION.**

\*\*\*\*\*