



101,102 Jayesh Bldg., Waliv, Vasai (E)-401 208, Maharashtra, India

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## SODIUM CHLORIDE FCC MATERIAL SAFETY DATA SHEET

### Section 1: Chemical Product and Company Identification

**Product Name:** Sodium Chloride [Food Grade]

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

**FSSAI Lic. No.:** 11519019000530

**Contact Information:**

**U.S.Steriles**

101,102, Jayesh Bldg, Waliv, Vasai (E),  
Palghar-401 208, Maharashtra,(India).

### Section 2: Composition and Information on Ingredients

Name	CAS #	% by Weight
Sodium chloride	7647-14-5	100

**Toxicological Data on Ingredients:** Sodium chloride: ORAL (LD50): Acute: 3000 mg/kg [Rat.]. 4000 mg/kg [Mouse]. DERMAL (LD50): Acute: > 10000 mg/kg [Rabbit]. DUST (LC50): Acute: > 42000 mg/m 1 hours [Rat].

### 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: Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure is not known to aggravate medical condition.

Suggested NFPA ratings:

HEALTH	FLAMMABILITY	REACTIVITY	PERSONAL PROTECTION
1	0	0	E

### Section 4: First Aid Measures

**Eye Contact:** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Cold water may be used. Get medical aid immediately.

**Skin Contact:** Wash with soap and water. Cold water may be used. Remove the contaminated clothing and shoes. Wash clothing before reuse.

**Inhalation:** If person breathes large quantities, remove to fresh air at once. If breathing stops, apply artificial respiration immediately.

**Ingestion:** Less than a few grams would not be harmful. For larger quantities, DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

### Section 5: Fire and Explosion Data

Flammability of the Product	Non-flammable
Extinguishing media	Not applicable
Special Fire Fighting Procedures	Not applicable



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### **Section 6: Accidental Release Measures**

**Spill Procedures:** Contain spills to prevent contamination of water supply or sanitary sewer system. Vacuum or sweep into containers for proper disposal.

### **Section 7: Handling and Storage**

**Storage Temperature (min. /max.):** Avoid humid or wet conditions as product will cake and become hard.

**Special Sensitivity:** Avoid contact with strong acids.

**Handling and Storage Precautions:** Becomes hygroscopic at 75% relative humidity.

### **Section 8: Exposure Controls/Personal Protection**

**Eye Protection Requirements:** Eyeglasses or goggles should be worn in dusty areas.

**Skin Protection Requirements:** Protective clothing may be worn in dusty areas if required.

**Respiratory/Ventilation Requirements:** NIOSH/MSHA approved respirator for particulates.

**Exposure Limits:** Not available.

### **Section 9: Physical and Chemical Properties**

Physical state and appearance	Solid. (Solid crystalline powder.)
Odor	Slight.
Taste:	Saline
Molecular Weight	58.44 g/mole
Colour	White
pH	4.0 – 9.0
Boiling Point	1413°C (2575.4°F)
Melting Point	801°C (1473.8°F)
Specific Gravity	2.165 (Water = 1)
Solubility	Easily soluble in cold water, hot water. Soluble in glycerol, and ammonia. Very slightly soluble in alcohol. Insoluble in Hydrochloric Acid.

### **Section 10: Stability and Reactivity Data**

Stability	The product is stable.
Instability Temperature	Not available.
Conditions of Instability	Incompatible materials, high temperatures.
Incompatibility with various substances	Reactive with oxidizing agents, metals, acids.
Corrosivity	Not considered to be corrosive for metals and glass.
Special Remarks on Reactivity	Hygroscopic. Reacts with most non-noble metals such as iron or steel, building materials (such as cement) Sodium chloride is rapidly attacked by bromine trifluoride. Violent reaction with lithium.

### **Section 11: Toxicological Information**

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

**Toxicity to Animals:**



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WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (LD50): 3000 mg/kg [Rat.]. Acute dermal toxicity (LD50): >10000 mg/kg [Rabbit]. Acute toxicity of the dust (LC50):>42000 mg/m<sup>3</sup> 1 hour [Rat].

**Chronic Effects on Humans: MUTAGENIC EFFECTS:** Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/ or yeast.

**Other Toxic Effects on Humans:** Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.

**Special Remarks on Toxicity to Animals:** Lowest Published Lethal Dose (LDL) [Man] - Route: Oral; Dose: 1000 mg/kg

**Special Remarks on Chronic Effects on Humans:**

Causes adverse reproductive effects in humans (fetotoxicity, abortion) by intraplacental route. High intake of sodium chloride, whether from occupational exposure or in the diet, may increase risk of TOXEMIA OF PREGNANCY in susceptible women. Hypertonic sodium chloride solutions have been used to induce abortion in late pregnancy by direct infusion into the uterus (Brown et al, 1972), but this route of administration is not relevant to occupational exposures. May cause adverse reproductive effects and birth defects in animals, particularly rats and mice (fetotoxicity, abortion, musculoskeletal abnormalities, and maternal effects (effects on ovaries, fallopian tubes) by oral, intraperitoneal, intraplacental, intrauterine, parenteral, and subcutaneous routes. While sodium chloride has been used as a negative control in some reproductive studies, it has also been used as an example that almost any chemical can cause birth defects in experimental animals if studied under the right conditions (Nishimura & Miyamoto, 1969). In experimental animals, sodium chloride has caused delayed effects on new born, has been fetotoxic, and has caused birth defects and abortions in rats and mice (RTECS, 1997). May affect genetic material (mutagenic)

**Special Remarks on other Toxic Effects on Humans:**

Acute Potential Health Effects: Skin: May cause skin irritation. Eyes: Causes eye irritation. Ingestion: Ingestion of large quantities can irritate the stomach (as in overuse of salt tablets) with nausea and vomiting. May affect behaviour (muscle spasticity/contraction, somnolence), sense organs, metabolism, and cardiovascular system. Continued exposure may produce dehydration, internal organ congestion, and coma. Inhalation: Material is irritating to mucous membranes and upper respiratory tract.

**Section 12: Ecological Information**

**Eco toxicity:** Not available.

**BOD5 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:** The product itself and its products of degradation are not toxic.

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

**Section 13: Disposal Considerations**

**Waste Disposal Method:** Follow applicable Federal, state, and local 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**



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Not Listed

**Section 16: Other Information**

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