



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

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## SODIUM BICARBONATE FCC MATERIAL SAFETY DATA SHEET

### Section 1: Chemical Product and Company Identification

**Product Name** : Sodium Bicarbonate FCC

**CAS#** : 144-55-8

**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 Bicarbonate	144-55-8	100

**Toxicological Data on Ingredients:** Not applicable.

### 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: Not available. 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 non-abrasive soap and water. Cold water may be used. Remove the contaminated clothing and shoes. Wash clothing before reuse. Cover the irritated skin with an emollient. If irritation persists, seek medical attention.

**Inhalation:** Allow the victim to rest in a well-ventilated area. Seek immediate medical attention.

**Ingestion:** Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention..

### Section 5: Fire and Explosion Data

Flammability of the Product	Non-flammable
Extinguishing media	Not applicable
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.
Special Fire Fighting Procedures	Not applicable
Special Remarks on Fire Hazards	When heated to decomposition it emits acrid smoke and irritating fumes.



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

**Spill Procedures:** 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.

### **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 acids.

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

### **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 and Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

**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	White Crystalline powder
Odor	Odourless
Taste	Saline. Alkaline
Molecular Weight	84.01g/mole
Color	White
pH(5% w/v Solution)	8.30
Boiling Point	Not available
Melting Point	Not available
Specific Gravity	Density: 2.159 (Water = 1)
Solubility	Freely Soluble in water

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

Stability	The product is stable.
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.
Corrosivity	Non-corrosive in presence of glass.
Special Remarks on Reactivity	Reacts with acids to form carbon dioxide. Dangerous reaction with monoammonium phosphate or a sodium-potassium alloy.



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

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

**Toxicity to Animals:** Acute oral toxicity (LD50): 3360 mg/kg [Mouse].

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

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

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

**Special Remarks on Chronic Effects on Humans:** Sodium Bicarbonate as produced genetic effects in rats (unscheduled DNA synthesis). However, no affects have been found in humans.

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

Acute Potential Health Effects: Skin: May cause mild skin irritation. Eyes: May cause mild eye irritation. Inhalation: May cause respiratory tract irritation. Symptoms may include coughing and sneezing. Ingestion: Symptoms of overexposure to Sodium Bicarbonate include thirst, abdominal pain, gastroenteritis, and inflammation of the digestive tract. Chronic Potential Health Effects: Skin: Repeated or prolonged skin contact may cause irritation, drying or cracking of the skin. Ingestion and Inhalation: Chronic toxicity usually occurs within 4 to 10 days following ingestion of very large amounts. Repeated or prolonged ingestion or inhalation of large amounts may cause metabolic abnormalities, and sodium retention. Metabolic abnormalities such as acidosis, hypernatremia, hypochloremia, alkalosis, hypocalcemia, or sodium retention may affect the blood, kidneys, respiration (cyanosis, apnea secondary to metabolic acidosis or pulmonary edema), and cardiovascular system (tachycardia, hypotension). Severe toxicity may also affect behaviour/central nervous system/nervous system. Neurological changes may result from metabolic abnormalities. These may include fatigue, irritability, dizziness, mental confusion, paresthesia, seizures, tetany, cerebral edema Medical Conditions Aggravated by Exposure: Persons with pre-existing skin conditions might have increased sensitivity. Predisposing conditions that contribute to a mild alkali syndrome include renal disease, dehydration, and electrolyte imbalance, hypertension, sarcoidosis, congestive heart failure, edema, or other sodium retaining conditions.

### **Section 12: Ecological Information**

**Ecotoxicity:** 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:** 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**

Not applicable



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**Section 16: Other Information**

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall U.S.Steriles be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if U.S.Steriles has been advised of the possibility of such damages.