



Material Safety Data Sheet

Sodium Bicarbonate (Baking Soda) MSDS

1. SUBSTANCE IDENTIFICATION

- 1.1. Product Name: Sodium Bicarbonate
- 1.2. Description: Sodium Bicarbonate is a sodium salt of carbonate manufactured through chemical synthesis.
- 1.3. Chemical Formula: NaHCO_3
- 1.4. Molecular weight: 84.01
- 1.5. CAS #: 144-55-8
- 1.6. EINECS #: 205-633-8
- 1.7. Manufactured by: Foodchem International Corporation, Shanghai China.
- 1.8. Supplied by: Foodchem International Corporation, Shanghai China.
- 1.9. Usage: In food as leavening agent,

2. Composition

- 2.1. Sodium Bicarbonate: >99%
- 2.2. Hazardous impurities: Chlorides (Cl, %) 0.50, Ammonia Pass test, Insoluble, substances Pass test, Whiteness (%) 85, Lead (Pb) 2 mg/kg, Arsenic (As) 1 mg/kg, Heavy Metal (as Pb) 5 mg/kg

3. Physical/Chemical Characteristics

- 3.1. Physical State: Powder
- 3.2. Appearance: white crystalline powder
- 3.3. Odor: Odorless.
- 3.4. pH: 8.4
- 3.5. Melting point/range: 50 ° C (122 ° F; 323 K) (decomposes to sodium carbonate)
- 3.6. Boiling point: Not available.
- 3.7. Bulk density: 2.20 g/cm³
- 3.8. Solubility: 96 g/L (20 ° C)

4. Stability/Reactivity

- 4.1. Chemical Stability: Stable under normal temperatures and pressures
- 4.2. Shelf Life: 24 months period
- 4.3. Hazardous decomposition: Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.
- 4.4. Hazardous polymerization: Will not occur
- 4.5. Incompatible with: oxidizing agents, reducing agents, acids, alkalis, moisture.

5. Handling/Storage

- 5.1. Storage: Stored in a cool and dry place and Keep away from strong light and heat
- 5.2. Handling precaution: Use with adequate ventilation. Minimize dust generation and accumulation. Avoid prolonged or repeated contact with skin. Avoid breathing vapors from heated material. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Do not allow contact with water. Keep from contact with moist air and steam.

6. Exposure Control

- 6.1. Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits.
- 6.2. Respiratory protection: NIOSH/MSHA or European Standard EN 149 approved respirator
- 6.3. Eye Protection: Protective eyeglasses or chemical safety goggles
- 6.4. Skin Protection: Wear appropriate protective gloves and clothes to minimize skin contact.
- 6.5. Other: Consult professionals if Sodium Bicarbonate need to be handled under some special conditions.



7. Hazards Identification

- 7.1. Hazardous overview: Sodium Bicarbonate is Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation
- 7.2. Contact with eyes: May cause eye irritation.
- 7.3. Contact with skin: May cause skin irritation.
- 7.4. Ingestion: May cause irritation of the digestive tract.
- 7.5. Inhalation: May cause irritation to the respiratory tract and gastrointestinal
- 7.6. Other: Not Applicable

8. First Aid Measures

- 8.1. Contact with eyes: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs.
- 8.2. Contact with skin: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.
- 8.3. Ingestion: 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 if symptoms appear.
- 8.4. Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

9. Fire and Explosion Data

- 9.1. General information: Non-flammable.
- 9.2. Flash point: Not available
- 9.3. Ignition control: Not available
- 9.4. Dust control: Keep the handling area with adequate ventilation
- 9.5. Extinguishing Media: Not available
- 9.6. Spills/Leaks: Use appropriate tools to put the spilled solid in a convenient waste disposal container. If necessary: Neutralize the residue with a dilute solution of acetic acid.

10. Transport Information

- 10.1. No special requirements and no restrictions on transportation by land, sea or air.

11. Ecological Information

- 11.1. Sodium Bicarbonate is fully degradation biodegradable. The product itself and its products of degradation are not toxic

12. Other Information

- 12.1. This Safety Data Sheet of Sodium Bicarbonate is based upon a limited review of Foodchem International Corporation files and standard Toxicological handbooks. 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 Foodchem International Corporation 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 Foodchem International Corporation has been advised of the possibility of such damages.

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