

# **SAFETY DATA SHEET (SDS)**

Name of chemical: Sodium Bicarbonate

### 1. PRODUCT IDENTIFICATION / COMPANY ADDRESS

| Trade Name                              | Sodium<br>Bicarbonate | Common<br>Name                       | Baking<br>Soda                             | Synonyms                                   | Bicarb, baking soda,<br>bicarbonate, sodium<br>acid carbonate |
|---|-----------------------|--------------------------------------|--|--|---|
| Company Name / Address /<br>Phone / Fax |                       | <b>Contact in ca</b><br>+91(02892 67 | hoomi Dwark<br>ase of Emero<br>75802 /03 ) | a (Gujarat) 36 <sup>,</sup><br>gency Only: | 1 345 INDIA<br>vendra Thakur                                  |
| Chemical Name                           | •                     | Sodium Bicarb                        | onate (Crystal                             | line Solid)                                |   |

## 2. HAZARD IDENTIFICATION

| Hazard Classification   | Eye Irrit. 2B, H320  |
|-------------------------|--|
| LABEL ELEMENTS          | No Labelling   |
| Signal word             | Danger   |
| Hazard statement        | H320 - Causes eye irritation   |
| Precautionary statement | P264 - Wash exposed skin thoroughly after handling. P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 - If eye irritation persists: Get medical advice/attention |

### 3. COMPOSITION / INFORMATION AND INGREDIENTS

|                       | H, O - Na +        | Chemical Family   |                     |
|-----------------------|--------------------|-------------------|---------------------|
| Formula               |                    | Molecular weight  | 84.05 g/mol         |
| CAS No                | 144-55-8           | Molecular Formula | NaHCO₃              |
| Name                  | Product identifier | %                 | Classification      |
| Sodium<br>Bicarbonate | 144-55-8           | 100%              | Eye Irrit. 2B, H320 |

#### 4. FIRST AID MEASURE

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| Tata Chemicals Ltd.  | MSDS – SODIUM BICARBONATE   |
|--|---|
| Ingestion  | <ul> <li>Do NOT induce vomiting unless directed to do so by medical personnel.</li> <li>Never give anything by mouth to an unconscious person.</li> <li>Loosen tight clothing such as a collar, tie, belt or waist band.</li> <li>Get medical attention if symptoms appear</li> </ul> |
| Inhalation   | • If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.  |
| Eyes   | <ul> <li>Flush eyes with running water for 15 minutes, maintaining the eyelids wide open to eliminate the product.</li> <li>Consult an ophthalmologist in case of persistent pain.</li> </ul>   |
| Skin   | Wash with soap and water. Cold water may be used.     Get medical attention if irritation develops.   |
| Antidote   |   |
| Most important symptoms/ effects, acute and or delayed                 | Eye Contact- Moderate irritation to eyes. Inhalation- Slight irritating to nose. Skin contact- Negligible effect. Ingestion- Ingestion of large quantities may cause nausea and vomiting.   |
| Indication of immediate medical attention and special treatment needed | No additional information available   |

# 5. FIRE FIGHTING MEASURES

| Fire extinguishing media         | In case of fire in close proximity, all means of extinguishing are acceptable.              |  |  |
|----------------------------------|---|--|--|
| Hazardous decomposition products | No additional information available   |  |  |
| Special fire fighting procedure  | Use Protective Equipment as applicable to the combustion products associated with the fire. |  |  |
| Precaution to Fire Fighters      | Non-flammable.  |  |  |

# 6. ACCIDENTAL RELEASE MEASURES

| Personal precaution             | Refer to Section 8 "Exposure Controls / Personal Protection".   |
|---------------------------------|---|
| Precautions for the environment | Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.   |
| Clean up method                 | <ul> <li>Can be recovered and re-used if contamination does not present a problem.</li> <li>Vacuum or sweep up the material. If the spilled product is unusable due to contamination, consult state or federal environmental agencies for acceptable disposal procedures and locations</li> </ul> |

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### 7. HANDLING AND STORAGE

| General<br>precaution | <ul> <li>Use air conveying/mechanical systems for bulk transfer to storage.</li> <li>For manual handling of bulk transfer use mechanical ventilation to remove airborne dust from railcar, ship or truck.</li> <li>Use approved respiratory protection when ventilation systems are not available.</li> <li>Selection of respirators is based on the dust cloud generated.</li> </ul> |
|-----------------------|---|
| Personal protection   | Wear personal protective equipment as Section-8   |
| Storage               | Protect from excessive heat and moisture. Store away from acids   |
| Incompatibilities     | Strong oxidizers. Strong acids.   |

### 8. EXPOSURE CONTROL / PERSONAL PROTECTION

| Personal protection                   |  |                                      |   |
|---------------------------------------|--|--------------------------------------|---|
|                                       | THE STATE OF THE S |                                      |   |
| Skin                                  | • Dry product is generally in irritating to intact skin. However, product can be irritating where has been damaged and can creskin irritation after long exposision when moisture is present. Ut such conditions, gloves and lesseeved clothing are recomment to minimize skin contact.  | this skin eate ures nder ong-        | Appropriate eye and face protection equipment (ANSI Z87 approved) should be selected for the particular use intended for this material. Safety glasses with side shields are recommended. |
| Respiration                           | Whenever dust in the work breathing zone cannot be controlled with ventilation or other engineer means, workers should we respirators or dust masks approve by NIOSH / OSHA or comparate certification organization to prothem against airborne dust.  | olled<br>ering<br>vear<br>ed<br>able |   |
|                                       | Exposu   | re limits                            |   |
| TLV-TWA                               | 15 mg/m3 (Total Dust) 5 mg/m3 (Respirable Dust)  | TLV-STEL                             |   |
| Appropriate<br>Engineering<br>Control | Appropriate engineering controls: Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Provide adequate general and local exhaust ventilation   |                                      |   |

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# 9. PHYSICAL AND CHEMICAL PROPERTIES

| Appearance                                     | White<br>Crystalline<br>Solid | Molecular<br>Weight                | 84.05 g/mol          | Specific<br>gravity            | No data<br>available                    |
|--|-------------------------------|------------------------------------|----------------------|--------------------------------|---|
| Odour/Odor<br>threshold                        | Odorless                      | Flash Point<br>°C                  | Not<br>Pertinent     | pH/ Acidity                    | 8.6 (5% solution).                      |
| Auto Ignition<br>Temp. °C                      | No data<br>available          | Boiling Point<br>°C @ 760 mm<br>Hg | Not available        | Melting<br>Point °C            | 270 °C                                  |
| Vapor Press.<br>Mm Hg @ 20<br>°C               | Not Applicable                | Vapour<br>Density                  | No data<br>available | Water<br>Solubility @<br>20 °C | 88g / liter<br>water. @<br>20°C (68°F). |
| LEL %  | Not Applicable                | UEL %                              | Not<br>Applicable    | % Volatile                     |   |
| Evaporation rate                               |                               | Viscosity @<br>25 °C               |                      | PH                             |   |
| Octanol /<br>Water<br>Partition<br>Coefficient | No data<br>Available          |                                    |                      | No data<br>available           |   |

# 10. STABILITY AND REACTIVITY

| Chemical<br>Stability                                | Stable under normal conditions.  | Possibility of<br>Hazardous reaction | Contact with acids except under controlled conditions. |
|--|--|--------------------------------------|--|
| Hazardous<br>Reactions/<br>Decomposition<br>products | May liberate Carbon     Monoxide Carbon Dioxide     or Oxides Fumes.                       | Incompatible<br>Materials            | Strong acids. Strong oxidizers.                        |
| Condition to avoid                                   | • Incompatible materials, Moisture. Stable in dry air, but slowly decomposes in moist air. |                                      |  |

### 11. TOXICOLOGICAL INFORMATION

| Routes of exposure   | Ingestion, Ey             | es, Inhalation, Skin A  | bsorption |  |  |
|--|---------------------------|---|-----------|--|--|
| LD50 (oral / rats) mg/kg   | 4000<br>mg/kg             | LD50 (dermal/<br>rats) mg/kg  |           | LC50 (inhalation / rats) - 4 hrs. mg/l |  |
| Target Organ<br>Effects  | Mainly Respiratory system |   |           |  |  |
| Symptoms related to physical, chemical & toxicological characteristics |                           | Based on available data, the classification criteria are not met.  Causes eye irritation. |           | ation criteria                         |  |

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### 12. ECOLOGICAL INFORMATION

| Mobility in<br>Soil                 | No additional information available   |
|-------------------------------------|---|
| Persistence<br>and<br>degradability | Not established.  |
| Bioaccumula tive Potential          | Not established.  |
| Effects on fish (Ecotoxicity)       | Non-toxic, the substance dissociates readily into its constituent ions, all of which are abundant in nature |
| Effects on birds                    | No data available   |
| Effects on bees                     | No data available   |

#### 13. DISPOSAL CONSIDERATIONS

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

### 14. TRANSPORT INFORMATION

| UN No.                 |                    | IMDG No.         |  |
|------------------------|--------------------|------------------|--|
| Shipping Name          | Sodium Bicarbonate | Hazard class     |  |
| Packing group          |                    | Hazard Sub class |  |
| Marine Pollutant       | Yes                | Labels required  |  |
| Warning<br>Statement   |                    |                  |  |
| Packaging / Precaution |                    |                  |  |
| Shipping Marking       |                    |                  |  |

### 15. REGULATORY INFORMATION

### **PHRASES R:**

Not classified as hazardous or toxic to users.

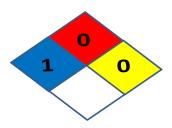
### PHRASES S:

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#### **16. OTHER INFORMATION**

#### NFPA Rating:



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