1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Sodium bicarbonate
Product Number : S4772
Brand : Sigma
Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO  63103
USA
Telephone : +1 800-325-5832
Fax : +1 800-325-5052
Emergency Phone # : (314) 776-6555

2. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : Sodium hydrogen carbonate
Formula : NaHCO3
Molecular Weight : 84.01 g/mol

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>EC-No.</th>
<th>Index-No.</th>
<th>Concentration [%]</th>
</tr>
</thead>
<tbody>
<tr>
<td>144-55-8</td>
<td>205-633-8</td>
<td>-</td>
<td>-</td>
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</table>

3. HAZARDS IDENTIFICATION

Emergency Overview
OSHA Hazards
No OSHA Hazards

HMIS Classification
Health Hazard: 1
Flammability: 0
Physical hazards: 0

NFPA Rating
Health Hazard: 0
Fire: 0
Reactivity Hazard: 0

Potential Health Effects
Inhalation May be harmful if inhaled. May cause respiratory tract irritation.
Skin May be harmful if absorbed through skin. May cause skin irritation.
Eyes May cause eye irritation.
4. FIRST AID MEASURES

- If inhaled
  If breathed in, move person into fresh air. If not breathing give artificial respiration.

- In case of skin contact
  Wash off with soap and plenty of water.

- In case of eye contact
  Flush eyes with water as a precaution.

- If swallowed
  Never give anything by mouth to an unconscious person. Rinse mouth with water.

5. FIRE-FIGHTING MEASURES

- Flammable properties
  - Flash point: no data available
  - Ignition temperature: no data available

- Suitable extinguishing media
  Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

- Special protective equipment for fire-fighters
  Wear self contained breathing apparatus for fire fighting if necessary.

- Further information
  The product itself does not burn.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions
  Avoid dust formation.

- Environmental precautions
  Do not let product enter drains.

- Methods for cleaning up
  Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

- Handling
  Provide appropriate exhaust ventilation at places where dust is formed.

- Storage
  Keep container tightly closed in a dry and well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Contains no substances with occupational exposure limit values.

- Personal protective equipment
  
  - Respiratory protection
    Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

  - Hand protection
    For prolonged or repeated contact use protective gloves.
Eye protection
Safety glasses

Hygiene measures
General industrial hygiene practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
Form solid
Colour no data available

Safety data
pH no data available
Melting point 300 °C (572 °F)
Boiling point no data available
Flash point no data available
Ignition temperature no data available
Lower explosion limit no data available
Upper explosion limit no data available
Density 2.160 g/cm³
Water solubility no data available

10. STABILITY AND REACTIVITY

Storage stability
Stable under recommended storage conditions.

Conditions to avoid
Exposure to moisture.

Materials to avoid
Strong acids, Strong oxidizing agents

Hazardous decomposition products
Hazardous decomposition products formed under fire conditions.
Carbon oxides, Sodium oxides

11. TOXICOLOGICAL INFORMATION

Acute toxicity
LD50 Oral - rat - 4,220 mg/kg

Irritation and corrosion
Skin - Human - Mild skin irritation - 3 d
Eyes - rabbit - Mild eye irritation - 30 s

Sensitisation
no data available

Chronic exposure
no data available
Signs and Symptoms of Exposure
Exposure to large amounts can cause: Gastrointestinal disturbance, Heavy or prolonged skin exposure may result in the absorption of harmful amounts of material.

Potential Health Effects

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12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)
no data available

Ecotoxicity effects
no data available

Further information on ecology
no data available

13. DISPOSAL CONSIDERATIONS

Product
Observe all federal, state, and local environmental regulations.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods

IMDG
Not dangerous goods

IATA
Not dangerous goods

15. REGULATORY INFORMATION

OSHA Hazards
No OSHA Hazards

TSCA Status
On TSCA Inventory

DSL Status
All components of this product are on the Canadian DSL list.

SARA 302 Components
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
No SARA Hazards
Massachusetts Right To Know Components
No Components Listed

Pennsylvania Right To Know Components
Sodium hydrogencarbonate

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New Jersey Right To Know Components
Sodium hydrogencarbonate

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California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

16. OTHER INFORMATION

Further information
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