

**MATERIAL SAFETY DATA SHEET ( MSDS )-**  
**SODIUM BICARBONATE**

**1. IDENTIFICATION OF THE SUBSTANCE AND COMPANY**

Product : SODIUM BICARBONATE  
Chemical Name : Sodium Bicarbonate.  
Alternative Name : Bicarbonate of Soda. Baking Soda, Soda Bicarb  
Sodium Hydrogen Carbonate.  
Chemical Formula : NaHCO<sub>3</sub>

**COMPANY IDENTIFICATION**

**Supplier:**

**Pure Chemicals Group.**

CHENNAI, TAMILNADU, INDIA

**24 Hour Health Emergency**

(91) 8939878447

(91) 9444038694

**Transportation Emergency Phone**

(91) 8939768680

Company Name	Place	EMERGENCY TELEPHONE NUMBER
Pure Chemicals Group.	India	Day Emergency - 044-26161803-26161809

**2. COMPOSITION / INFORMATION ON INGREDIENTS**

Ingredient	CAS #	EC Number
Sodium Bicarbonate	144 - 55 - 8	205 - 633 8

**3. HAZARDS IDENTIFICATION**

A substance of low toxicity widely used in food and medicine. Treat as low toxicity dust. No significant health or environmental hazards associated with the material.

**4. FIRST AND MEASURES**

Inhalation

- Remove to fresh air

Skin Contact

- Wash skin with plenty of water
- If irritation occurs and persists seek medical advice

Eye Contact

- Irrigate eye thoroughly with eye wash solution or clean water for at least 10 minutes.
- Eyelids should be held away from the eyeball to ensure thorough rinsing.
- Obtain medical attention if necessary.

#### Ingestion

- DO NOT induce vomiting
- Wash out mouth with water and give plenty of water to drink (at least 300 ml).
- Obtain medical attention if necessary.

### **5. FIRE-FIGHTING MEASURES**

**Flash Point** - Non-combustible

**Extinguishing Media** - All extinguishing products are allowed

**Special Hazards** - Non-combustible

**Hazardous Decomposition Products (under fire conditions)** - Not applicable

### **6. ACCIDENTAL RELEASE MEASURES**

**Environmental Precautions** - Prevent discharges into the environment (rivers, water courses, sewers etc.)

**Methods for clean up** - Clear up spillages by suitable means, avoiding dust formation

- Collect as much as possible in a suitable clean container, preferably for re-use, otherwise for disposal.

- Wash the spillage area with large quantities of water.

### **7. HANDLING AND STORAGE**

**Handling** - Atmospheric levels should be controlled in compliance with the occupational exposure limit. Skin protection should be worn for regular and continuous use.

**Storage** - Store in a cool dry place (in humid conditions the product will absorb moisture from the atmosphere and this will eventually cause caking and loss of free flowing properties). Do not store adjacent to acids.

**Fire and Explosion Prevention** - Non-combustible

### **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

#### **Engineering Controls**

- Provide adequate ventilation
- In the case of insufficient ventilation, wear suitable respiratory equipment

#### **Occupational Exposure Standards**

- Not listed by H&SE
- Nuisance Dust

Recommended Limits: OES 10mg/m<sup>3</sup> (total dust) (8hr TWA)

5mg/m<sup>3</sup> (respirable dust) 8hr TWA).

**Respiratory Protection**

- In the case of high dust levels wear suitable respiratory protective equipment, ie. Dust masks or respirator.

**Hand Protection**

- Wear suitable chemical resistant protective gloves for frequent or prolonged operations.

**Eye Protection**

- Suitable eye / face protection.

**Skin and Body Protection**

- Protective clothing is required, overalls as a minimum.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	:	Crystalline Powder
<b>Colour</b>	:	White
<b>Odour</b>	:	Odourless
<b>Melting Point</b>	:	Decomposes
<b>Flash Point</b>	:	Not applicable
<b>Flammability</b>	:	Not applicable
<b>Auto Ignition Temp.</b>	:	Not applicable
<b>Explosive properties</b>	:	None known
<b>Oxidising Properties</b>	:	None known
<b>Vapour Pressure</b>	:	Not applicable
<b>Specific Gravity</b>	:	None known
<b>Bulk Density</b>	:	Not applicable
<b>Solubility in water</b>	:	2.22
<b>Solubility in other solvents</b>	:	980 kg/m <sup>3</sup>
<b>pH value</b>	:	9.5%w/w @25 dec cel
<b>Partition Coefficient</b>	:	Not applicable
<b>(n-octanol/water)</b>	:	8.3(1%w/wsolution)
<b>Relative vapour density (air-1)</b>	:	Not applicable
<b>Explosion Limits</b>	:	Not applicable

**10. STABILITY AND REACTIVITY**

**Stability** - Stable under recommended storage and handling conditions (see Section 7).

**Conditions to avoid** - Contact with acids unless under controlled conditions

- Heating the product above 60 deg cel. 4220 mg/kg.

- Humidity and moisture can cause caking of product. Dust may cause discomfort

**Materials to avoid** - Acids

**Hazardous decomposition products** - Not applicable

## 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity** - Oral LD 50, rat

- Inhalation

**Eye Irritation** - Dust may cause discomfort

- 96hr-LC50 : 8600mg/l

- 8hr-LC50 : 2350mg/l

**Skin Irritation** - No known effect

- Not applicable (inorganic compound)

**Long Term Exposure**

- No known effect

## 12. ECOLOGICAL INFORMATION

**Acute Ecotoxicity** - Fish, *Lepomis macrochirus*

- *Daphnia* sp.

**Bio – degradability** - Aerobic / Anaerobic degradation

## 13. DISPOSAL CONSIDERATIONS

**Product** - Must be disposed in accordance with local, state or national regulations

- Do not dispose of directly with acids - Not restricted

- Dissolve in water and neutralise with an acid Not restricted

**Packaging** - Not relevant

- Must be disposed in accordance with local, state or natural regulations

- Contact the manufacturer about recycling.

## 14. TRANSPORT INFORMATION

Not regulated - Not classified as hazardous for transport.

### \* Land Transport

None

ADS Class

Not relevant

RID Class

No

TREM – Card

Not relevant

Hazard Identification number

Not regulated

Proper shipping name

None

### \* Sea Transport

IMO / IMDG  
Packing group  
EMS  
Marine Pollutant  
Proper shipping name

**\* Air Transport**

ICAO/IATA-DGR Class  
Proper shipping name

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## 15. Regulatory Information

Manufacture, Storage and Import of Hazardous Chemicals Rule, 1989.

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## 16. Other Information

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