

	<b>MATERIAL SAFETY DATA SHEET</b> <b>Sodium Bicarbonate</b>		Format No.: F04-E(03-01)
			Revision no.: 04
			Effective date : 01/07/2020
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<b>1) Identification of the substance / preparation and of the company / undertaking.</b>			
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	:-	GHCL Limited, Sutrapada-362 275 , Dist - Gir Somnath, Gujarat, (India).	
Telephone No.	:-	02876 - 263401, 263402, 263403	
<b>2) Composition / Information on ingredients</b>			
Sodium BiCarbonate			
CAS-No.	:-	144-55-8	
EC No.	:-	205-633-8	
<b>3) Hazards Identification</b>			
<ul style="list-style-type: none"> <li>- A substance of low toxicity widely used in food &amp; medicine.</li> <li>- Treat as low toxicity dust.</li> <li>- No significant health or environmental hazards associated with the material.</li> </ul>			
<b>4) First aid measures</b>			
Ingestion :	Do not induce vomiting. Wash out mouth with water & give plenty of water to drink (at least 300 ml.) Obtain medical attention if necessary.		
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.		
<b>5) Fire-fighting measures</b>			
Flash point	:-	Non combustible	
Extinguishing Media	:-	All extinguishing products are allowed	
Special Hazards	:-	Non combustible	
Hazardous Decomposition Products (Under fire conditions)	:-	Not applicable	
<b>6) Accidental release measures</b>			
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.	
<b>7) Handling and storage</b>			
Handling	:-	Atmospheric levels should be controlled in compliance with the occupational exposure limit.	
	:-	Skil protection should be worn for regular & continuous use.	
Storage	:-	Store in dry place at room temperature away from moisture (in humid condition the product will absorb moisture from the atmosphere and this will eventually cause caking & loss of free flowing properties).	
	:-	Do not store adjacent to acids.	
Fire & explosion prevention	:-	Non-combustible	
<b>8) Exposure controls / personal protection</b>			
Engineering Controls	:-	Provide adequate ventilation	
	:-	In the case of insufficient ventilation, wear suitable respiratory equipment	
Occupational exposure standards	:-	Not listed by HSE	
	:-	Nuisance dust recommended limits: OES 10mg/m <sup>3</sup> (total dust) (8 hr TWA) 5mg/m <sup>3</sup> (respirable dust) 8hr TWA).	
Respiratory Protection	:-	In the case of high dust levels wear suitable respiratory protective equipment, i.e. Dust masks or respirator.	
Hand Protection	:-	Wear suitable chemical resistant protective gloves for frequent or prolonged operations.	
Eye Protection	:-	Suitable eye/take protection.	
Skil and Body protection	:-	Protective clothing is required, overall as a minimum.	

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**9) Physical and Chemical properties**

Appearance	:- Crystalline Powder	Oxidising Properties	:-	Not known
Colour	:- White	Vapour Pressure	:-	Not applicable
Odour	:- Odourless	Specific Gravity	:-	2.22
Melting Point	:- Decomposes	Bulk Density	:-	980 kg/m3
Flash Point	:- Not applicable	Solubility in water	:-	9.5% w/v @ 25°C
Flammability	:- Not applicable	Solubility in other solvents	:-	Not applicable
Auto ignition temp.	:- Not applicable	pH value	:-	8.3 (1% w/v solution)
Explosive properties	:- Not known	Partition Coefficient (n-octanol/water)	:-	Not applicable
Explosion Limits	:- Not applicable	Relative vapour density (air-1)	:-	Not applicable

**10) Stability and reactivity**

**Stability** - Stable under recommended storage & handling conditions (refer section 7).

**Reactivity** - Condition to be avoided:

- i. Contact with acids unless under controlled conditions
- ii Heating with product above 60°C
- iii Humidity & moisture can cause caking of product

Materials to avoid	:-	Acids
Hazardous decomposition products	:-	Not applicable

**11) Toxicological information**

Acute toxicity	
Eye Irritation	:- Dust may cause discomfort
Inhalation	:- Dust may cause discomfort
Skin Irritation	:- No known effect
LD 50 (Oral rat)	:- 4220 mg/kg
Long term exposure	:- No known effect

**12) Ecological information**

**Acute Ecotoxicity**

Fish, Lepomis macrochiru	:-	96hr-LC50 : 8600mg/l
Daphnia sp.	:-	48hr-LC50 : 2350mg/l

**Bio-degradability**

Aerobic/Anaerobic degradation	:-	Not applicable (inorganic compound)
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**13) Disposal Considerations**

- Product :**
- i. Must be disposed in accordance with local, state or national regulations
  - ii Do not dispose of directly with acids
  - iii Dissolve in water and neutralise with an acid
- Packaging :**
- i. Must be disposed in accordance with local, state or national regulations
  - ii Bags are marked with **Recyclable logo**. Wherever possible recycling is preferred to disposal or incineration.
  - iii Clean container with water. Dispose of rinse water in accordance with local and national guidelines.

**14) Transport Information**

- Not classified as hazardous for transport.

**\* Land Transport**

ADS Class	Not restricted	ADR item number	Not relevant
RID Class	Not restricted	RID item number	Not relevant
TREM-card	Not relevant	UN Number	None
Hazard Identification Number	None	Substance Identification No.	None
Proper Shipping Name	None		

**\* Sea Transport**

IMO/IMGD	Not regulated	Class	Not relevant
Packing group	None	UN Number	None
EMS	Not relevant	MFAG	Not relevant
Marine Pollutant	No		
Proper Shipping Name	Not relevant		

**\* Air Transport**

ICAO/IATA-DGR Class	Not regulated	UN number	None
Proper shipping name	None	Packing Number	None

**15) Regulatory Information**

-Safety, health and environmental regulations/legislation specific for the substance or mixute.

EU regulations	
Major Accident Hazards	96/82/EC
Legislation	Directive 96/82/EC does not apply
National Legislation	
Storage Class	10-13

**16) Other information**

Provide adequate information, instruction & training for operators.

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