

MATERIAL SAFETY DATA SHEET

[As per Schedule 5 of the Gujarat Factories (Amended) Rules-1995 under rule 68-J, 2(2) & 2(3)]

SAFETY DATA SHEET

1. CHEMICAL IDENTITY

Chemical Name	SODIUM BICARBONATE	Chemical Classification	---	
Synonyms	Baking Soda Bicarb	Trade Name	---	
		C.A.S.No.	144-55-8(TSCA)	
Formula	NaHCO₃	U.N.No.	---	
Regulated Identifications	Shipping Name	SODIUM BICARBONATE		
	Codes/Label	---		
	Hazardous Waste I.D.No.	---		
	Hazchem No.	---		
Hazardous Ingredients		C.A.S. No.	Hazardous Ingredients	
1	---	---	2	---

2. PHYSICAL AND CHEMICAL DATA

BOILING Range / Point °C	Physical State	Appearance
Not Applicable	---	White Crystallite Powder
Melting/Freezing Point °C	Vapour Pressure at 35°C	Odour
518°F	Not Applicable	Odourless
Vapour Density (Air =1)	Solubility in water at 30°C	Others
Not Applicable	8.8 % WT	None
Specific Gravity (Water=1)	pH	
2.16 to 2.2	---	

3. FIRE AND EXPLOSION HAZARD DATA

Flammability	LEL	Flash Point °C	
No	Not Applicable %	Not Applicable (OC)	
TDG Flammability	UEL	Flash Point °C	
---	Not Applicable %	Not Applicable (CC)	
Autoignition Temperature °C	Not Applicable	Combustible Liquid	No
Explosion Sensitivity to Impact	---	Flammable Material	No
Explosion Sensitivity to Static Electricity	---	Pyrophoric Material	
Hazardous Combustion Product	May liberate Carbon Monoxide Carbon Dioxide or Oxides Fumes.	Explosive Material	No
		Oxidiser	
Hazardous Polymerisation	Will not occur	Organic Peroxide	
Others		Corrosive Material	No

4. REACTIVE DATA

Chemical Stability	Stable
Incompatibility with other Material	
Reactivity	
Hazardous Reaction Products	May liberate Carbon Monoxide Carbon Dioxide or Oxides Fumes.

5. HEALTH HAZARDS DATA

Routes of Entry	Inhalation, Skin or Eyes contact.
Effects of Exposure/ Symptoms	Breathing dust may irritate the nose and throat and cause coughing and chest discomfort. Eye : Dust may irritate the eyes. Skin : Repeated contact with the dust may irritate the skin.
Emergency Treatment	Immediately flash eyes with lots of running water for 15 minutes lifting the upper & lower eyelids occasionally get immediate medical attention. Swallowed : May cause gastrointestinal disturbance.

TLV (ACGIH)		STEL	
ppm	mg/m ³	ppm	mg/m ³
Permissible Exposure Limit		Odour Threshold	
ppm	mg/m ³	ppm	mg/m ³

LD ₅₀ (Oral Rat)	mg/Kg			
NFPA Hazard	Health	Flammability	Reactivity	Special
Signals				

6. PREVENTIVE MEASURES

Personal Protective Equipment	Long sleeved shirt, Trousers, Safety Shoes, Rubber Gloves, Rubber Apron, Chemical Goggles and Full Face Shield for eyes. Dust Mask or B.A.Sets. An eye wash and Safety Shower should be nearby and ready for use.
Handling & Storage Precautions	Store in cool, dry, & well ventilated place. Away from incompatible materials keep bags or fiber drums dry at times wash thoroughly after handling. Do not get in eyes, on skin or on clothing.

7. EMERGENCY / FIRST AID MEASURES

FIRE	Eire Extinguishing Media	Use water spray, dry chemical, CO ₂ or Alcohol Foam.
	Special Procedure	Wear B.A.Set and full protective clothing, use water spray to cool nearby area.
	Unusual Hazardous	Extinguish all nearby sources of ignition.
EXPOSURE	First Aid Measures	Remove to fresh air, give artificial respiration. Seek medical aid.
	Antidotes / Dosages	Don't give any thing by mouth to an unconscious or convulsing person.
SPILLS	Steps to be Taken	Wear all appropriate PPEs. And comply with all applicable government regulation on spill reporting.
	Waste Disposal Method	

8. ADDITIONAL INFORMATION / REFERENCES

The product is intended for use in food, animal feed, drug or cosmetic manufacture and it has been produced and packed in accordance with strict quality practices. Maintain this quality level by storing this product away from other chemicals, handling it with care, and avoiding all sources of contamination.

9. MANUFACTURERS / SUPPLIERS DATA

Name of Firm	 Tata Chemicals Ltd.,	Contact Person in Emergency	Safety & Fire Dept
Mailing Address	Mithapur - 361345	Local Bodies Involved	--
Telephone / Telex Nos.	(02892) 223439	Standard Packing	--

10.DISCLAIMER

Reasonable care has been taken in the preparation of the information contained in this Material Safety Data Sheet and is given in good faith. However, Tata Chemicals Limited, Mithapur assumes no responsibility as to the accuracy or suitability of such information and no warranty, expressed or implied, is made.